



**IMPLEMENTATION OF TERMS AND CONDITIONS FOR
THE LABEL AMENDMENT OF XTENDIMAX® WITH
VAPORGRIP® TECHNOLOGY APPROVED ON MARCH
15, 2022:
APRIL 2022 REPORT**

XtendiMax® With VaporGrip® Technology
EPA Reg. No. 264-1210

REPORT DATE
April 29, 2022

REGISTRANT
Bayer CropScience LP
800 N. Lindbergh Blvd.
St. Louis, MO 63167

Pursuant to the XtendiMax® With VaporGrip® Technology terms and conditions issued by EPA on March 15, 2022, item 2.e, Bayer CropScience LP provides the following report to EPA, detailing its efforts to accomplish the requirements of the terms and conditions.

1. Labeling of product produced, packaged and/or released for shipment beginning April 14, 2022.

All inventory in the possession of Bayer CropScience LP on April 13, 2022, was blocked for shipment and collateral labels were provided for each volume. Products are being considered available for shipment at the distribution centers only when the labels are compliant with the additional requirements. No production or packaging has or will occur on or after April 14, 2022 without either the new final printed labelling or collateral labelling.

In compliance with FIFRA section 7, all collateral labels have space reserved for the EPA establishment number of the site applying the label. All production will take place in an EPA-registered establishment and will be reported to EPA pursuant to FIFRA section 7.

2. Access to additional labeling requirements in downloadable format

By March 18, 2022, the additional labeling requirements were made available on the website <https://www.xtendimaxapplicationrequirements.com/#/>. Other XtendiMax® With VaporGrip® Technology-branded Bayer CropScience LP websites include links to <https://www.xtendimaxapplicationrequirements.com/#/>.

An image of the website <https://www.xtendimaxapplicationrequirements.com/#/> showing the non-closeable banner displayed on the top of the website containing the language specified in item 2.b.iii of the terms and conditions is attached to this report (Appendix A).

3. Communication of the availability of and requirement for users to follow the amended labeling for product sold or distributed prior to April 14, 2022 in the annual XtendiMax® With VaporGrip® Technology education and training program

Communication of the availability of and requirement for users to follow amended labeling requirements for product sold or distributed prior to April 14, 2022 was included in the annual XtendiMax® With VaporGrip® Technology education and training program as of March 15, 2022. This training provides users with amended labeling and discusses the requirement to visit the applicable website, and informs users that they must obtain a copy of the amended labeling and have it in their possession at the time of application and follow amended labeling requirements. A copy of the annual XtendiMax® With VaporGrip® Technology education and training program material is attached to this report (Appendix B).

4. Actions to contact all users who have already completed the 2022 training in states where there are EPA-approved state-specific restrictions

In Iowa, Bayer has recorded 1,366 individuals who were trained before March 15, 2022. Of those, 1,256 were contacted by e-mail and 917 responses were received to either the first or the second attempt. The remaining 339 individuals will be contacted by April 29, 2022. For those individuals who did not provide email address, 121 postcards were sent on April 15, 2022, and 409 post cards will be sent by April 29, 2022. Nine postcard replies were received by April 25, 2022. Forty-two individuals who have not responded to the first or the second e-mail contact attempts and have not provided a physical mailing address will be contacted by phone.

Bayer has kept records of these contact attempts and replies and they are available upon request.

In Minnesota, no additional actions were necessary, since annual trainings had not commenced in the state at the time of the label amendment approval.

5. Dissemination of the educational and training materials to state pesticide authorities and state agricultural extension services

Communications were sent by e-mail to state pesticide authorities and state agricultural extension specialists and read receipts are being kept in Bayer's files to be provided upon request. Examples of these communications are attached to this report (Appendix C and D).

6. Communication with sellers and distributors

On March 22, 2022, a draft of the communication to be sent to sellers and distributors was sent to EPA for approval. On March 29, 2022, EPA provided comments and the final version updated to meet the suggestions was provided to EPA on March 30, 2022.

On April 9, 2022, the communication was sent by e-mail to all known sellers and distributors of XtendiMax. It was distributed to a total of 1,898 locations. The final version of the communication is attached to this report (Appendix E).

Bayer CropScience LP maintains copies of all correspondence sent to sellers, distributors, and purchasers, and these copies are available upon request.

Appendix A

Application Requirements | XtendiMax x

xtendimaxapplicationrequirements.com/#/

ATTENTION: YOU MUST HAVE ALL LABELING APPLICABLE TO YOUR LOCATION IN YOUR POSSESSION FOR XTENDIMAX WITH VAPORGRIP TECHNOLOGY TO BE LAWFULLY APPLIED AFTER March 15, 2022.
It is a violation of FIFRA Section 12 to use a registered pesticide in a manner inconsistent with its labeling.
Bayer CropScience LP has provided amended labeling for this product, and users are under legal obligation to follow amended labeling.

LABELS AND RESOURCES TANK MIX TOOL VOLATILITY REDUCTION ADJUVANTS NOZZLES DRIFT REDUCTION TECHNOLOGY

XtendiMax® Herbicide with VaporGrip® Technology

Federal Label



Download XtendiMax® Herbicide Container Label



Download XtendiMax® Herbicide Collateral Label Approved 3/15/2022

State-Specific Labels



Download Iowa Label Approved 3/15/2022



Download Minnesota Label Approved 3/15/2022

States With Additional Use Options, Restrictions or Requirements

- Arkansas
- Florida
- Illinois
- Indiana

Record-Keeping Forms

- Download 2022 Application Record Keeping Form (English)
- Download 2022 Application Record Keeping Form - Arkansas Version (English)

Endangered Species Protection Bulletin

Appendix B

APPROVED DICAMBA FORMULATIONS

2022

APPLICATION REQUIREMENTS

TRAINING AND EDUCATION

PROVIDED BY BAYER

CERTIFICATE OF COMPLETION

For in-person training make sure you check out before leaving

Upon completion of training, the certificate and a Success Kit will be separately emailed to you. You should receive the certificate within 24-48 hours.

It will come from
dicamba.training.bayer@cventemail.com

Success Kits will include:

XtendiMax[®] Herbicide with VaporGrip[®] Technology label

Sample recordkeeping form

Links to resources

Application requirements summary

Success Kits will also be emailed to provided address

Didn't get the email? Try this first:

Check your SPAM or junk email box

Turn off pop-up blockers

Still missing the email?

Call 1-844-RRXTEND between 8:00 a.m. and 5:00 p.m. central time, weekdays

We will confirm your email and resend the certificate



GENERAL LABEL INFORMATION

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS

Refer to specific state and local labeling/rulemaking for possible additional labeling information or for certification process.

You must check the applicable product website no more than 7 days before application to download copies of additional labeling, including state-specific and collateral labels.

ALL APPLICATORS MUST COMPLETE ANNUAL DICAMBA TRAINING PROVIDED BY:

State-
Provided
Mandatory
Training

OR

State-
Authorized
Provider

OR

Registrant
Provided
Training

APPROVED FORMULATIONS OF DICAMBA COVERED BY THIS TRAINING

AS OF DECEMBER 2020

The following formulations of dicamba are approved for use in the Roundup Ready® Xtend Crop System and are covered by this training:

XtendiMax® herbicide with VaporGrip® Technology (**Bayer**)

Tavium® Plus VaporGrip® Technology herbicide (**Syngenta**)

Engenia® Herbicide (**BASF**)

The application requirements in this training apply to all labeled uses of these products in the Roundup Ready® Xtend Crop System.

Some slides contain language from XtendiMax® label; other product label language may vary. Always read and follow all labeling for the specific product, including state-specific and collateral labels.

To be used by certified applicators only; NOT to be used by uncertified persons working under the supervision of a certified applicator, except that uncertified persons may transport containers.

These labels expire 12/20/2025.

PRODUCT STEWARDSHIP

OUR SHARED RESPONSIBILITY

- Product stewardship of dicamba products includes the responsible use of only approved, low-volatility formulations of dicamba in the Roundup Ready® Xtend Crop System and following all application requirements on product labeling, including state-specific and collateral labels
- Proper product stewardship helps enable continued access to important weed control technologies
- **Use of any dicamba product that is not approved for over-the-top use in the Roundup Ready® Xtend Crop System is strictly prohibited by Federal and State laws**
- To report any misuse of dicamba products, including the use of unapproved formulations, or if you have any questions related to the proper use of low-volatility formulations of dicamba, contact your Bayer representative or call 1-844-RRXTEND

PRODUCT LABELS

ALWAYS FOLLOW ALL LABELING FOR PRODUCT BEING APPLIED

* Website addresses are extensions of each product label and are subject to change. Certified Applicators are required to visit these website addresses no more than 7 days prior to application of respective product. The information is not a substitute for reading and following all product labelling.

XtendiMax[®] Herbicide with
VaporGrip[®] Technology (**Bayer**)

www.xtendimaxapplicationrequirements.com

Tavium[®] Plus VaporGrip[®]
Technology herbicide (**Syngenta**)

Stewardship:

www.syngenta-us.com/herbicides/tavium-application-stewardship

Tank Mix:

www.TaviumTankMix.com

Engenia[®] Herbicide (**BASF**)

Stewardship:

www.engeniastewardship.com

Tank Mix:

www.engeniatankmix.com

YOU MUST HAVE ALL LABELING APPLICABLE TO YOUR LOCATION, INCLUDING ANY STATE-SPECIFIC AND COLLATERAL LABELS, IN YOUR POSSESSION FOR THESE PRODUCTS TO BE LAWFULLY APPLIED.

Registrant has provided amended labeling for this product and users are under legal obligation to follow amended labeling.

It is a violation of FIFRA Section 12 to use a registered pesticide in a manner inconsistent with its labeling.

AGENDA

TOPICS COVERED IN THIS TRAINING



**LABEL
REQUIREMENTS**



**KEEPING
PESTICIDES
ON-TARGET**



**WEED
RESISTANCE
MANAGEMENT**

USE RESTRICTIONS



**DO NOT APPLY
THIS PRODUCT:**

Aerially.

Through any type of irrigation equipment. Do not treat irrigation ditches or water used for crop irrigation or domestic purposes.

To crop under stress due to environmental factors, herbicide injury, mechanical damage, insect pressure, etc.



**DO NOT TANK
MIX WITH:**

Products not found on the application requirements website.

Products containing ammonium sulfate (AMS).



**DO NOT MAKE
APPLICATION:**

If rain that may exceed soil field capacity and result in runoff is expected in the next 48 hours (For prevention of potential runoff when excessive rain may occur).

Without including required Drift Reduction Adjuvant (DRA) and Volatility Reduction Adjuvant (VRA) as listed on the application requirements website.

Approved dicamba formulations may **ONLY** be applied to crops with Roundup Ready 2 Xtend® Technology or XtendFlex® Technology up to and including **June 30 for soybeans** and **July 30 for cotton**.

CROP SYMPTOMOLOGY DUE TO RUNOFF



Image from 2018, Iowa.

RECORD KEEPING REQUIREMENTS





RECORD KEEPING

REQUIREMENTS

- Records required for each application of these products.
 - e.g., if 10 fields are sprayed, 10 sets of records are required, including if the same field is sprayed twice
- The certified applicator must keep required documentation for a period of two years; records must be generated as soon as practical but no later than **72 hours** after application.
- Copies of receipts for required VRA and DRA purchases are required and the amounts used in each tank load must be recorded.

Records must be made available to State Pesticide Control Official(s), USDA and EPA upon request.

XTENDIMAX Roundup Ready Xtend **2022 APPLICATION RECORD-KEEPING FORM**

Results recorded on each purchase for each application including approved Roundup Ready products, recommended rate and dilution, adjacent products, details a copy of all product labels, including state labels where applicable.

Approved Xtend Product: Roundup Ready Xtend

Location of Application: _____

To Be Applied To: ☐ Corn ☐ Soybean ☐ (Check to confirm optional use of specified Soft Seeding Technology (SST)) ☐

Buffer Distance (feet) between applications: _____

Block of treated field (acres): _____

Check to confirm Spray System Equipment is Certified Prior to Use: ☐

Manufacturer Name: _____ Type: _____

Drift Risk: _____ Operating Pressure: _____

Date of Application: ____/____/____ Date Crop Planted: ____/____/____ (Specify After Planting)

☐ Broadcast/Early Planting ☐ Preplant ☐ At Planting ☐ Pre-emergence ☐ Post-emergence

APPLICATOR (LRR): _____ APPLICATOR (SST): _____

Time: _____

Air Temperature (°F): _____

Wind Speed (in miles per hour): _____

Wind Direction (degrees from which wind is blowing): _____

Check to confirm Approved Dilution Rate per Area Was Applied (LRR only): ☐ N/A

Enter Amount Applied (gallons): _____

Monitoring & Safety (See label for adjacent crop based on rate, SST only if applicable, and volume): _____

Soft Seeding Technology (SST) used (yes/no): _____

At-Or After Seed Rate Product Used (based on rate, SST only if applicable, and volume): _____

Spray System Equipment Certified (adding product specific label rate per acre): ☐

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BAYER

RECORD KEEPING REQUIREMENTS

- 14 categories for record keeping requirements
- Link for the XtendiMax record keeping form will be shared via email
- Record keeping form available online:

www.xtendimaxapplicationrequirements.com



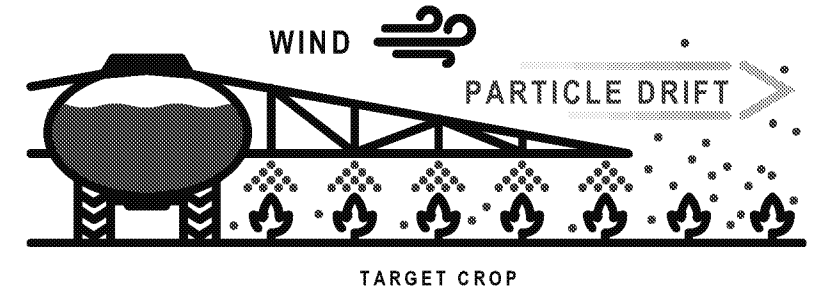
Roundup Ready Xtend Spray App for Apple and Android

Support for label and other application requirements, resource materials, weather forecasting, recordkeeping

TYPES OF OFF-TARGET MOVEMENT*

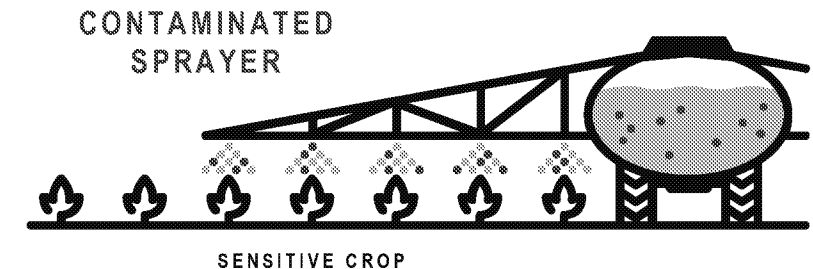
PHYSICAL DRIFT

Physical movement of spray particles **during** spray application



SPRAYER CONTAMINATION

Off-target movement from herbicide residue remaining in sprayer components




VOLATILITY

Movement of an herbicide as a gas or vapor **after** spray application.



*Movement through surface runoff or soil is another form of off target movement. Applicators should be aware of weather forecasts and avoid applications if rainfall that may exceed field capacity is expected in the next 48 hours.

SPRAY DRIFT MANAGEMENT



Do not allow herbicide solution to mist, drip, drift, or splash onto desirable vegetation because severe injury or destruction to desirable broadleaf plants could result.

APPLICATION EQUIPMENT AND TECHNIQUES

KEEPING TRACK OF THE WIND SPEED AND DIRECTION

Measure wind speed at boom height with an anemometer.

Recommended 2 minute sustained average.
(Federal Aviation Administration, 2012)

It is important for the applicator to be aware that wind direction may vary during the application. If wind direction shifts such that the wind is blowing toward adjacent non-dicamba tolerant sensitive crops, the applicator **must STOP** the application.



APPLICATION EQUIPMENT AND TECHNIQUES



ONLY USE

approved nozzles within the pressure ranges listed on the application requirements website

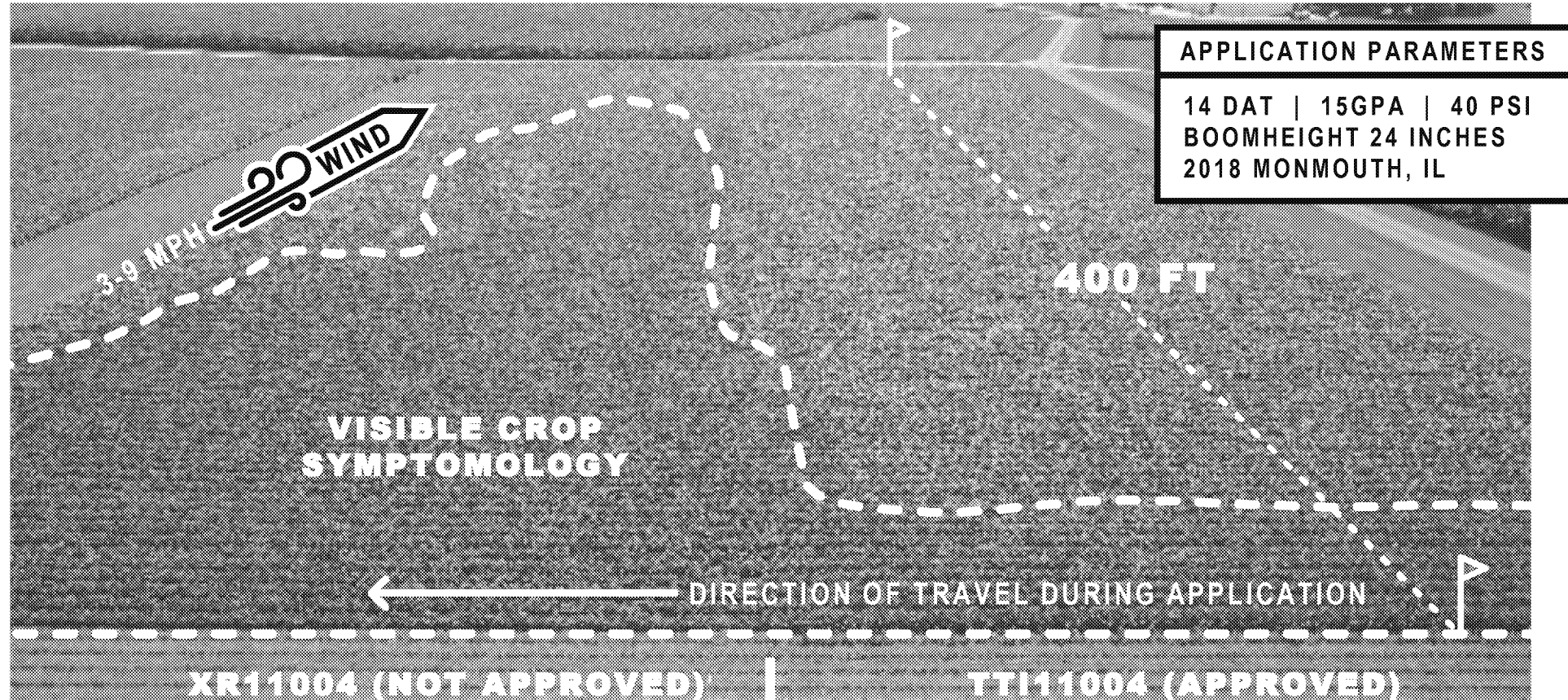
e.g. www.xtendimaxapplicationrequirements.com



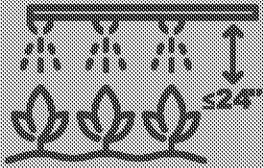
Applicators are required to consult the application requirements website no more than 7 days before application for a complete list of nozzles, VRAs, DRAs, drift reduction technology (DRT) and other herbicides, pesticides, and additives approved for use with these products

DEMONSTRATION ON IMPORTANCE OF PROPER NOZZLES

Nozzle Tip Impact on Drift

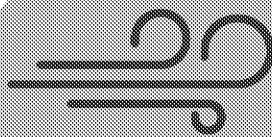


APPLICATION EQUIPMENT AND TECHNIQUES



SPRAY BOOM HEIGHT

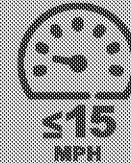
Maximum boom height is 24 inches from target crop or pest canopy



WIND SPEED

Apply when wind speeds are between 3 - 10 mph

It is important for the applicator to be aware that wind direction may vary during the application. If wind direction shifts such that the wind is blowing toward adjacent non-dicamba tolerant sensitive crops, the applicator **must STOP** the application.



GROUND SPEED

Do not exceed a ground speed of 15 mph

Provided the applicator can maintain the required nozzle pressure, it is recommended that tractor speed is reduced to 5 mph at field edges

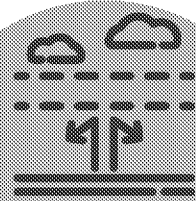
APPLICATION EQUIPMENT AND TECHNIQUES



SPRAY VOLUME

Require minimum 15 gallons of spray solution per acre

Use 20 gallons per acre or greater when treating dense weed canopy/vegetation



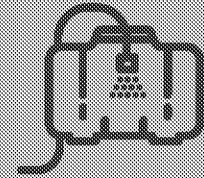
TEMPERATURE INVERSION

DO NOT APPLY this product during a temperature inversion



APPLICATION TIMING

Apply this product only between **one hour after sunrise and two hours before sunset**



HYGIENE

Failure to properly clean the **entire** system can result in inadvertent contamination of the spray system

OPTIONAL USE OF DRIFT REDUCTION TECHNOLOGY (DRT)

- May be used to reduce off-target movement of spray particles.
 - **Example: Hooded/shielded spray boom.**
- Qualified DRT and approved nozzles are listed on the application requirements websites.
 - e.g. www.xtendimaxapplicationrequirements.com
- Applications using qualified DRT may benefit from reduced restrictions, such as decreased downwind buffer distance.



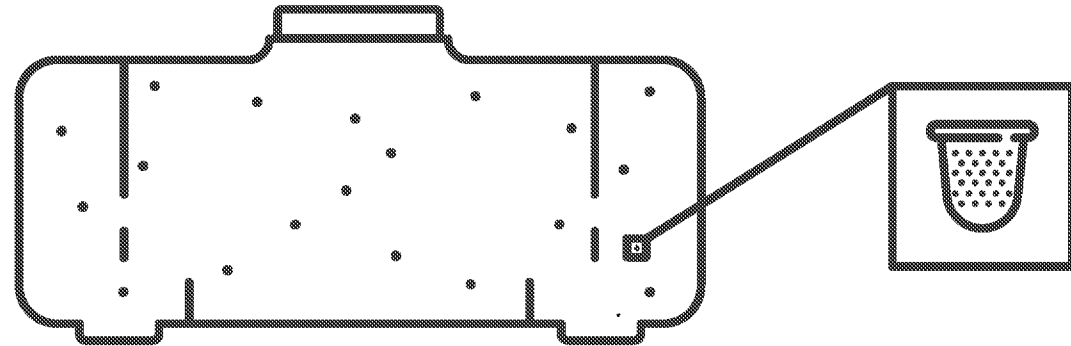
Refer to the application requirements websites for a complete list of approved nozzles, operating pressures, drift reduction technologies and required buffer distance.

SPRAY SYSTEM CLEANOUT

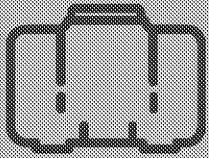
Dicamba contamination may cause injury to non-dicamba-tolerant soybeans and other sensitive crops and certain plants

**HOW MUCH
DICAMBA CAN
CAUSE
SYMPTOMOLOGY IN
SOYBEANS?**

**THE EQUIVALENT OF A THIMBLE FULL
OF FORMULATED DICAMBA PRODUCT
IN A 1,000 GALLON SPRAY SOLUTION**



MIXING, HANDLING, TRANSPORT AND SPRAY EQUIPMENT CLEANOUT CONSIDERATIONS

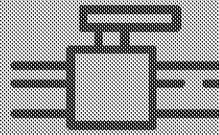


TANKS

Drain unused spray mix before cleanout

Ensure all surfaces are cleaned for each rinse

Drain all rinse water between each rinse.

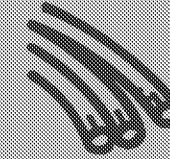


VALVES/LINES/HOSES

All valves should be cycled during cleaning

Flush loading ports

Clean flowmeters & associated lines/hoses



SCREENS/BOOMS/NOZZLES

Clean all in-line strainers and suction filters

Clean all nozzles and screens

Flush dead ends and end caps

Flush unused nozzle bodies, pressure check valves and nozzle turrets

Refer to the dicamba product label for a complete listing of required sprayer cleanout procedures.

Consider using dedicated equipment for dicamba products.

All rinse water must be disposed of as per state and local guidelines.

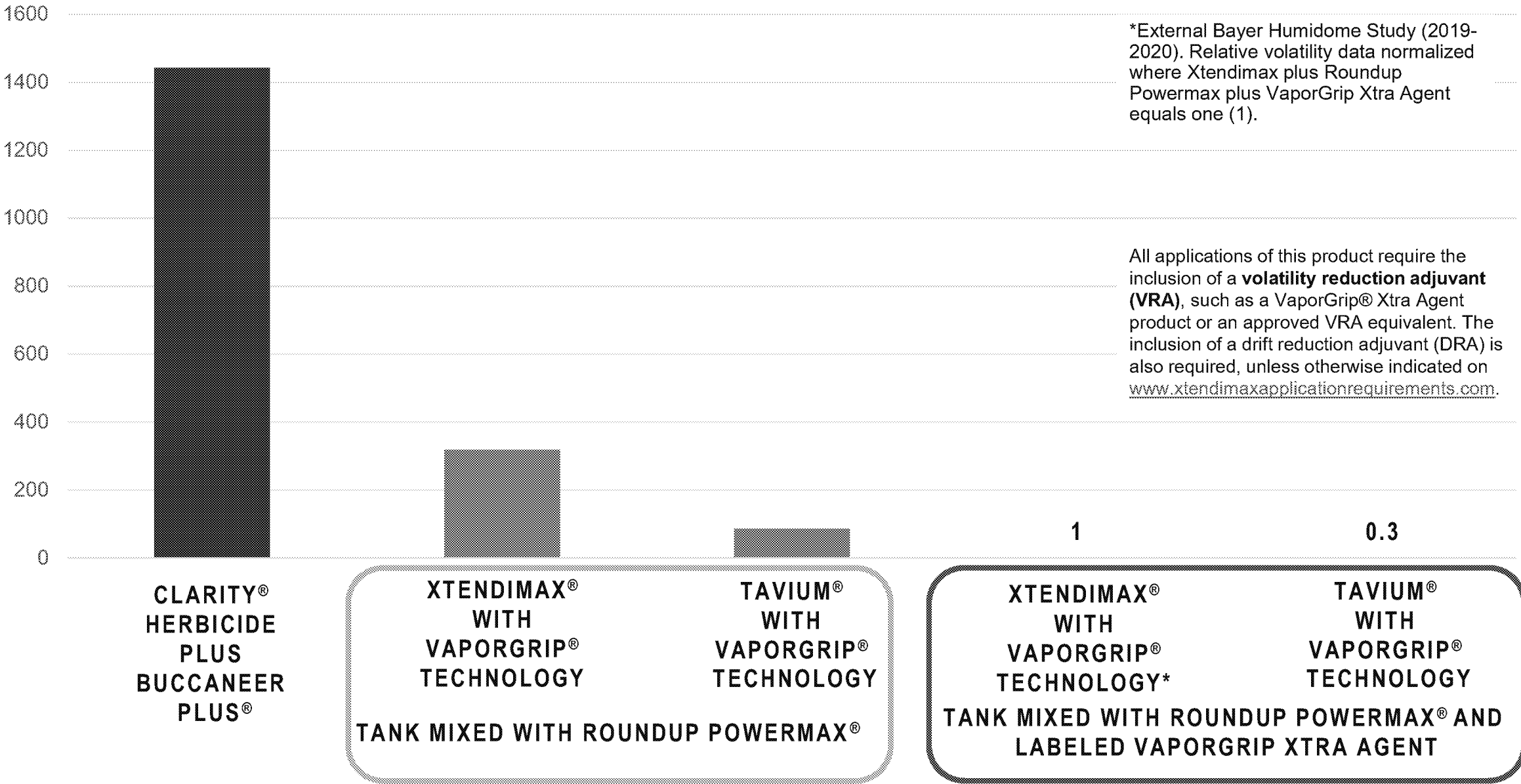
TANK MIX PARTNERS MAY IMPACT VOLATILITY AND OFF-TARGET MOVEMENT POTENTIAL



All applications of this product require the inclusion of a volatility reduction adjuvant (VRA), such as a VaporGrip® Xtra Agent product or an approved VRA equivalent. The inclusion of a drift reduction adjuvant (DRA) is also required, unless otherwise indicated on the specific product website, such as www.xtendimaxapplicationrequirements.com.

IMPACT OF VOLATILITY REDUCTION ADJUVANT AND DICAMBA FORMULATION

RELATIVE DICAMBA VOLATILITY*



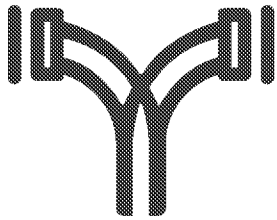
*External Bayer Humidome Study (2019-2020). Relative volatility data normalized where Xtendimax plus Roundup Powermax plus VaporGrip Xtra Agent equals one (1).

All applications of this product require the inclusion of a **volatility reduction adjuvant (VRA)**, such as a VaporGrip® Xtra Agent product or an approved VRA equivalent. The inclusion of a drift reduction adjuvant (DRA) is also required, unless otherwise indicated on www.xtendimaxapplicationrequirements.com.

TANK MIXING INSTRUCTIONS

PRODUCT WEBSITES

All applications of this product require the inclusion of a **volatility reduction adjuvant (VRA)**, such as a VaporGrip® Xtra Agent product or an approved VRA equivalent. The inclusion of a drift reduction adjuvant (DRA) is also required, unless otherwise indicated on www.xtendimaxapplicationrequirements.com.



**TANK MIX
PARTNERS**

Websites show approved nozzles, pressure ranges, VRAs, DRAs, tank mixes, and Drift Reduction Technologies (DRTs).

Approved tank mix partners and Required VRAs and DRAs are included on the application requirements websites

Applicator must check the list of approved products no more than 7 days before applying

XtendiMax® Herbicide with VaporGrip® Technology (Bayer)

www.xtendimaxapplicationrequirements.com

Engenia® Herbicide (BASF)

Stewardship: www.engeniastewardship.com

Tank Mix: www.engeniatankmix.com

Tavium® Plus VaporGrip® Technology herbicide (Syngenta)

www.TaviumTankMix.com

BEST MANAGEMENT PRACTICES FOR DICAMBA* APPLICATIONS IN CORN AND OTHER USES OF DICAMBA

- Target a coarse spray pattern (droplet size >400 microns) via nozzle type & pressure
- Utilize a DRA (drift reduction adjuvant) as appropriate
- Maintain equipment hygiene and tank cleanout procedures,
 - e.g. Triple rinse procedure
- Keep boom height as close as practical to the target canopy
- ***Do Not Spray*** when there are adjacent sensitive crops or plants downwind



* = XtendiMax, Engenia and Tavium are only approved for use in dicamba-tolerant soybeans and cotton the Roundup Ready® Xtend Crop System. These products are not labeled for use in corn.

BEST MANAGEMENT PRACTICES FOR DICAMBA* APPLICATIONS IN CORN AND OTHER USES OF DICAMBA

- Avoid AMS (ammonium sulfate) or UAN (urea ammonium nitrate) in tank mixtures
- Utilize a VRA (volatility reduction adjuvant) as a component of the tank mix
- Spray when wind speeds are between 3-10 mph
- ***Do Not Spray*** during a temperature inversion. The potential for temperature inversions is greatest in the evening and early morning.
- Adopt comprehensive record keeping practices for all pesticide applications

* = XtendiMax, Engenia and Tavium are only approved for use in dicamba-tolerant soybeans and cotton the Roundup Ready® Xtend Crop System. These products are not labeled for use in corn.

PROTECTING ADJACENT SENSITIVE CROPS AND CERTAIN PLANTS

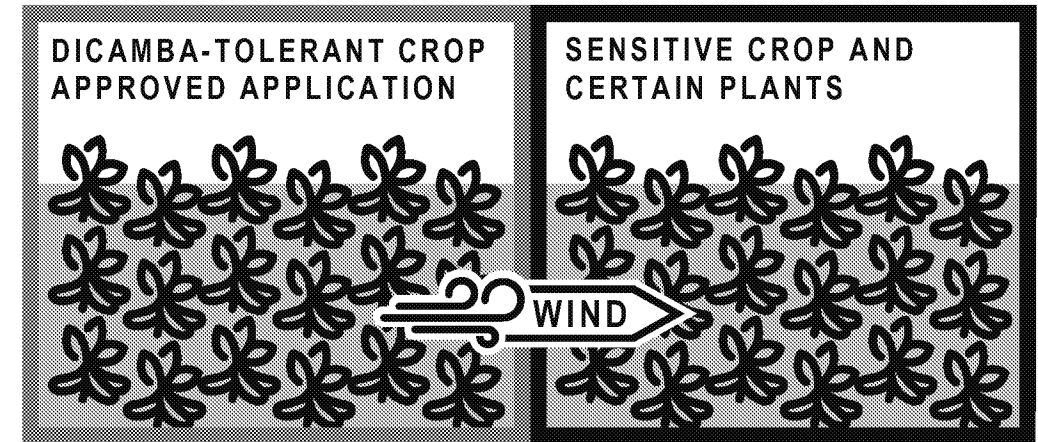


PROTECTION OF ADJACENT SENSITIVE CROPS AND CERTAIN PLANTS

DO NOT APPLY this product when the wind is blowing toward adjacent sensitive crops and certain plants; **this includes NON-DICAMBA TOLERANT SOYBEAN AND COTTON.**

Sensitive crops and/or certain plants include, but are not limited to, tomatoes and other fruiting vegetables (EPA crop group 8), fruit trees, cucurbits (EPA crop group 9), grapes, beans, flowers, ornamentals, peas, potatoes, sunflower, tobacco and other broadleaf plants, including if these plants are in a greenhouse.

DO NOT SPRAY



Contact with foliage, green stems, or fruit of crops, or any desirable plants that do not contain a dicamba tolerance gene or are not naturally tolerant to dicamba, could result in severe plant injury or destruction.

CONFIRM AND DOCUMENT ADJACENT SENSITIVE CROPS AND CERTAIN PLANTS

TAKE TIME TO KNOW YOUR NEIGHBORS AND YOUR SURROUNDINGS

Confirm sensitive crops and certain plants

Preseason consult with neighboring growers on all sides

Susceptible/sensitive crop registry, website, app, etc.

Follow-up prior to application to determine if there are any changes in intentions

Document in the application records that a sensitive crop registry (registry name and date) was consulted AND that adjacent areas were surveyed for sensitive crops and certain plants prior to application



*Registry examples; consult your state authority for other crop registries. Contact Bayer at 844-RRXTEND for questions.

ADDITIONAL EXAMPLES OF DICAMBA SENSITIVE CROPS

VISUAL SYMPTOMOLOGY SCALE FOR DICAMBA

LOWER

Broccoli
Collards
Cabbage
Kale
Mustard
Pecan
Turnip

>1/75X

MODERATE

Cantaloupe
Canola*
Cucumber
Peach
Peanut
Squash

1/75-1/300X

SEVERE

Cotton
Pepper
Tomato
Watermelon

1/300-1/800X

EXTREME

Grapes*
Lima Bean
Southern Pea
Snap Bean
Soybean
Sweet potato*
Tobacco*

< 1/800X

Herbicide Rate of Visually Detectable Symptomology: For relative comparison, tomato, squash, and watermelon response to glyphosate for visual symptomology would be in the “lower” category.

Information adapted from Dr. Stanley Culpepper, University of Georgia Cooperative Extension. Categories indicate sensitivity of listed plants to glyphosate exposure; not the degree of symptomology

Data from literature; all other data generated in over 72 UGA field experiments | Source: GA-018.

PROTECTION OF ADJACENT SENSITIVE CROPS AND CERTAIN PLANTS

Wind Direction?



SPRAY

- Application Field
- Dicamba Tolerant Crop
- No Crop
- Sensitive Crop

It is important for the applicator to be aware that wind direction may vary during the application. If wind direction shifts such that the wind is blowing toward adjacent non-dicamba tolerant sensitive crops, the applicator **must STOP** the application.

DICAMBA
TOLERANT
SOYBEANS

DICAMBA
TOLERANT CROP
APPROVED
APPLICATION

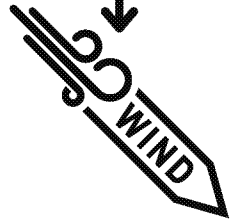
NON-DICAMBA
TOLERANT
SOYBEANS

CORN





CORN

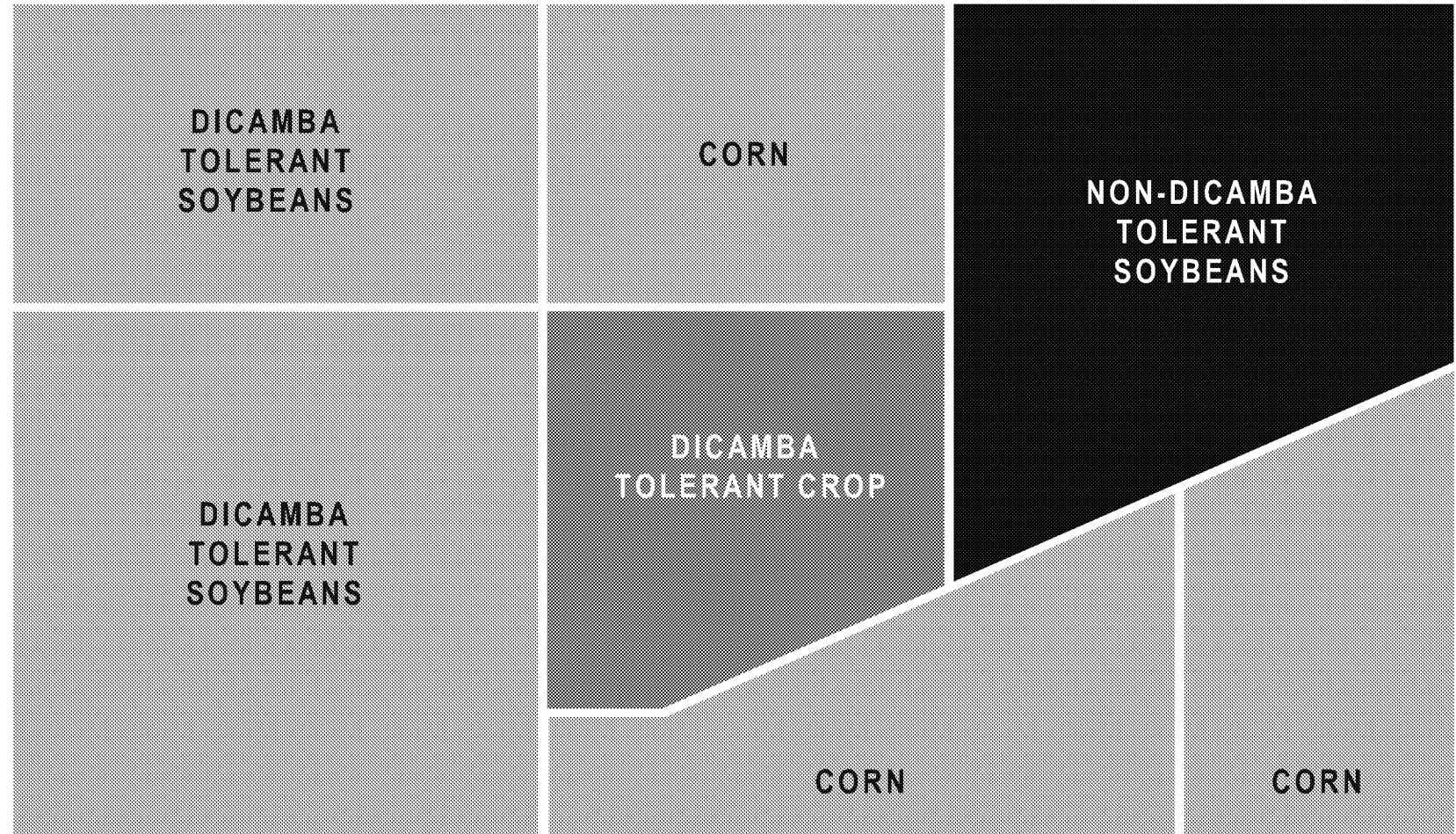
PROTECTION OF ADJACENT SENSITIVE CROPS AND CERTAIN PLANTS

Wind Direction?



DO NOT SPRAY

-  Application Field
-  Dicamba Tolerant Crop
-  No Crop
-  Sensitive Crop



BUFFER REQUIREMENT



BUFFER DISTANCE REQUIREMENT

DOWNWIND ADJACENT AREAS

THE APPLICATOR MUST ALWAYS MAINTAIN A DOWNWIND BUFFER

The buffer is the distance between the last treated row and the nearest downwind field edge (in the direction the wind is blowing).

240 feet for open-boom sprayers

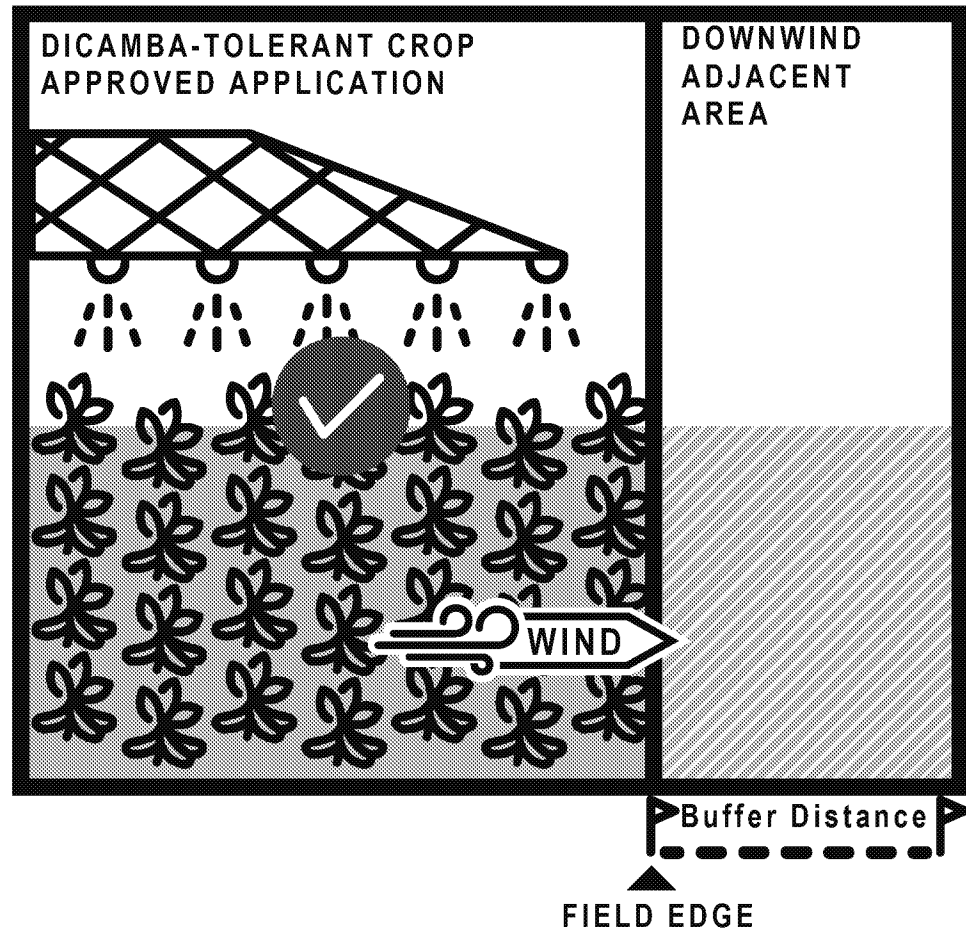
110 feet when using qualified Drift Reduction Technology (certain hooded/shielded broadcast sprayers) as listed on product specific websites

- ✦ When using qualified Drift Reduction Technology; certified applicator is required to visit www.xtendimaxapplicationrequirements.com no more than 7 days prior application to confirm approved equipment and application limitations/directions for specific Drift Reduction Technology employed.

Downwind buffer is not intended for protection of downwind sensitive crops and certain plants

BUFFER COMPOSITION REQUIREMENT

AREAS THAT MAY BE INCLUDED IN BUFFER DISTANCE COMPOSITION



Roads, paved or gravel surfaces, mowed grassy areas adjacent to field, and areas of bare ground from recent plowing or grading that are contiguous with the treated field.

Planted agricultural fields containing: corn, dicamba-tolerant cotton, dicamba-tolerant soybean, sorghum, proso millet, small grains, sugarcane and other crops for which dicamba has a post-emergent approved use.

If the applicator intends to include such crops as dicamba-tolerant cotton and/or dicamba-tolerant soybeans in the buffer distance composition, the applicator must confirm the crops are in fact dicamba tolerant.

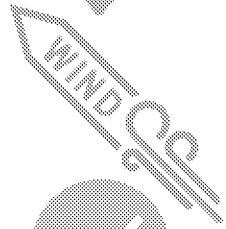
Agricultural fields that have been prepared for planting.

Areas covered by the footprint of a building, silo, or other man-made structure with walls and/or roof.

BUFFER REQUIREMENT

DOWNWIND ADJACENT AREAS

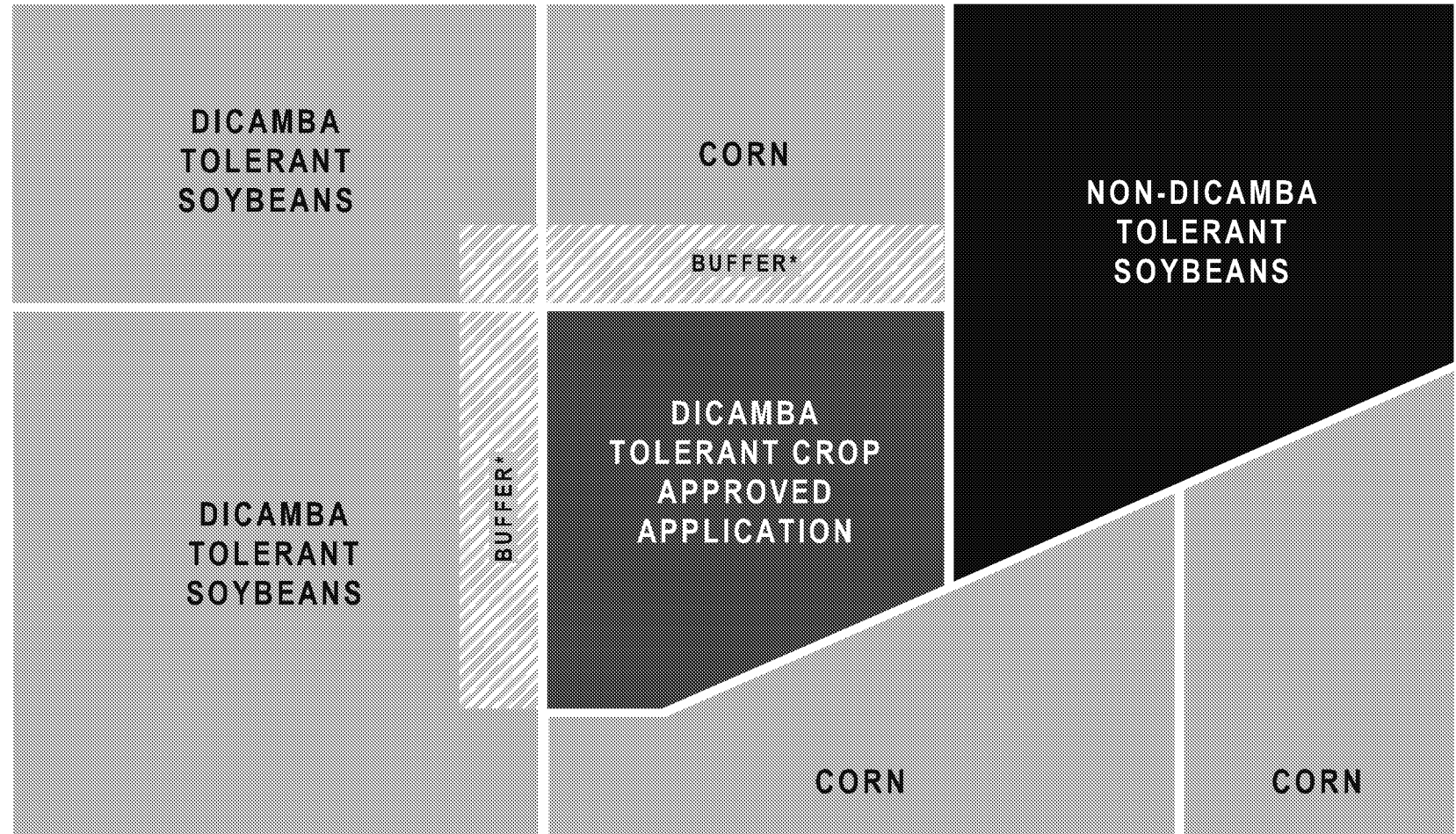
Wind Direction?



SPRAY

Buffers

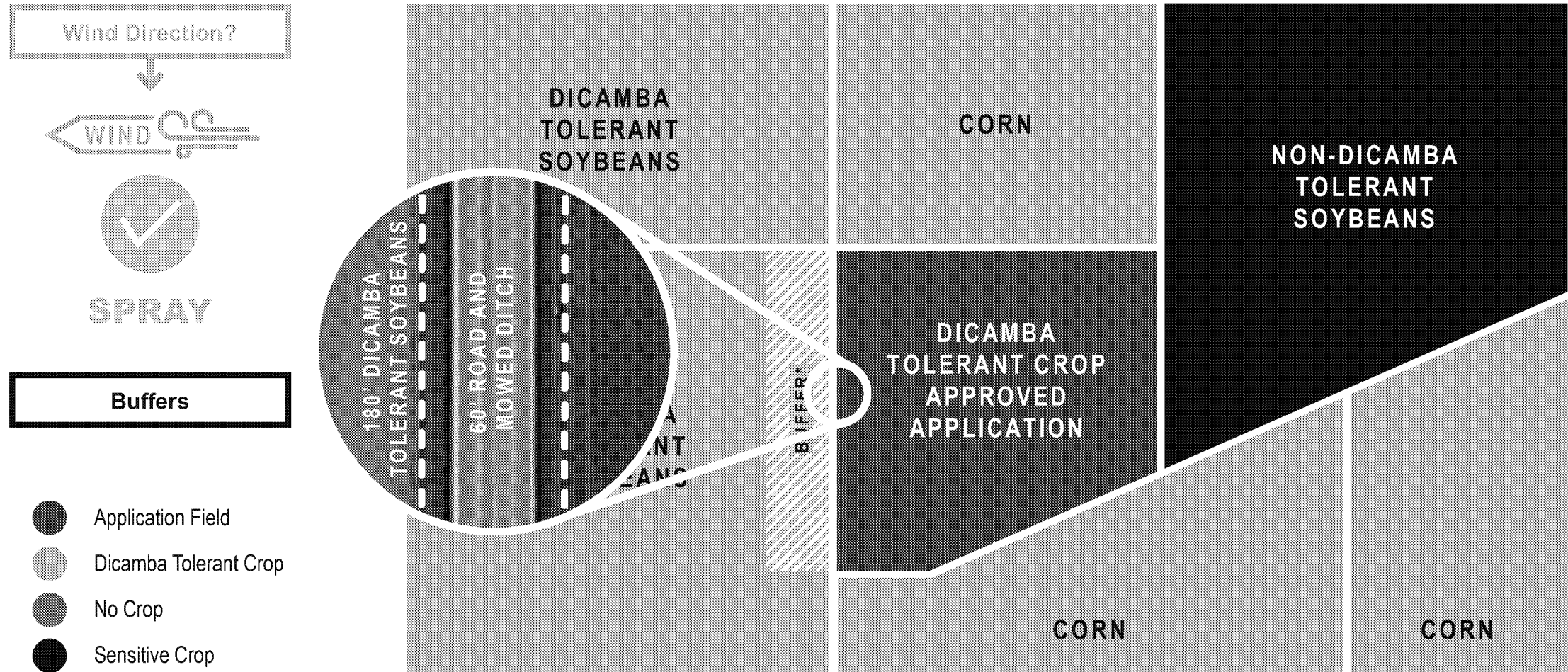
- Application Field
- Dicamba Tolerant Crop
- No Crop
- Sensitive Crop



*BUFFER COMPOSITION IS 240'. MAY BE REDUCED WHEN UTILIZING QUALIFIED DRT.

BUFFER REQUIREMENT

DOWNWIND ADJACENT AREAS



*BUFFER COMPOSITION IS 240'. MAY BE REDUCED WHEN UTILIZING QUALIFIED DRT.

ALL APPLICATORS MUST CHECK ANNUALLY BULLETINS LIVE! TWO

Obtain bulletins no more than **six months** before using these products

Go to:

<https://www.epa.gov/endangered-species/bulletins-live-two-view-bulletins>

OR

call 1-844-447-3813

You must use the Bulletin valid for the month in which you will apply these products

Applications within Pesticide Use Limitation Areas must follow the requirements contained in the Endangered Species Protection Bulletin

Bulletins Live! Two -- View the Bulletins

For assistance in using Bulletins Live! Two, [view the tutorial](#). Also see [background, notes and a quick start guide for BLT](#).

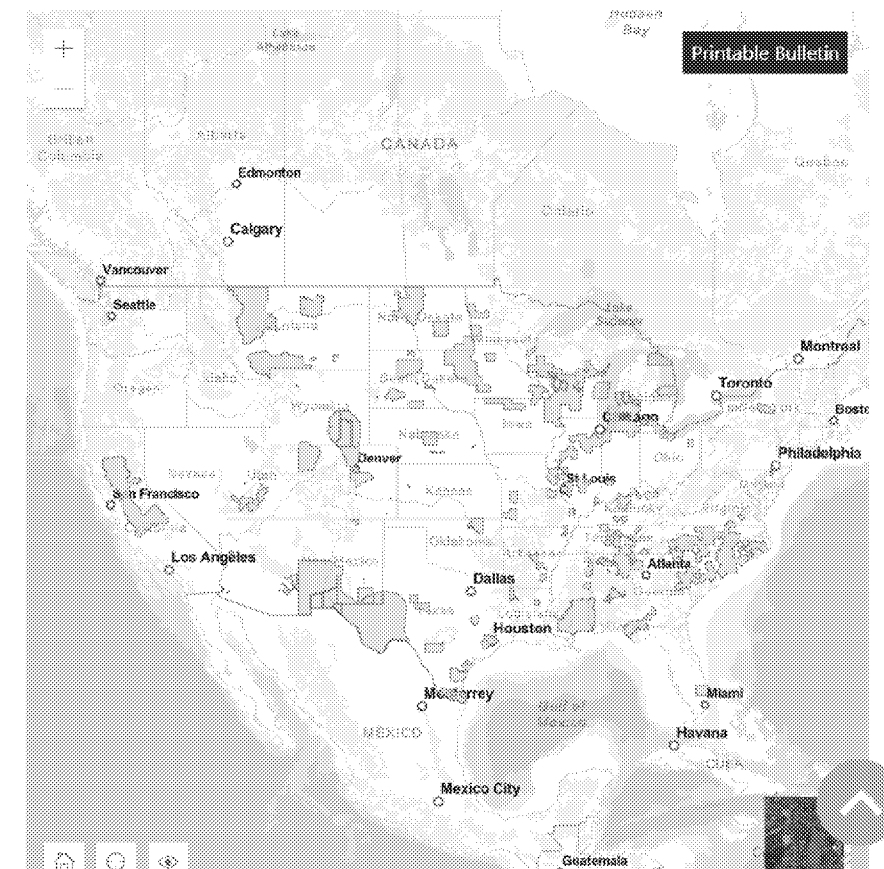
Directions
This tool displays Pesticide Use Limitation Areas (PULAs) for products with active Endangered Species Protection Bulletins. To generate a printable bulletin, please follow these steps:

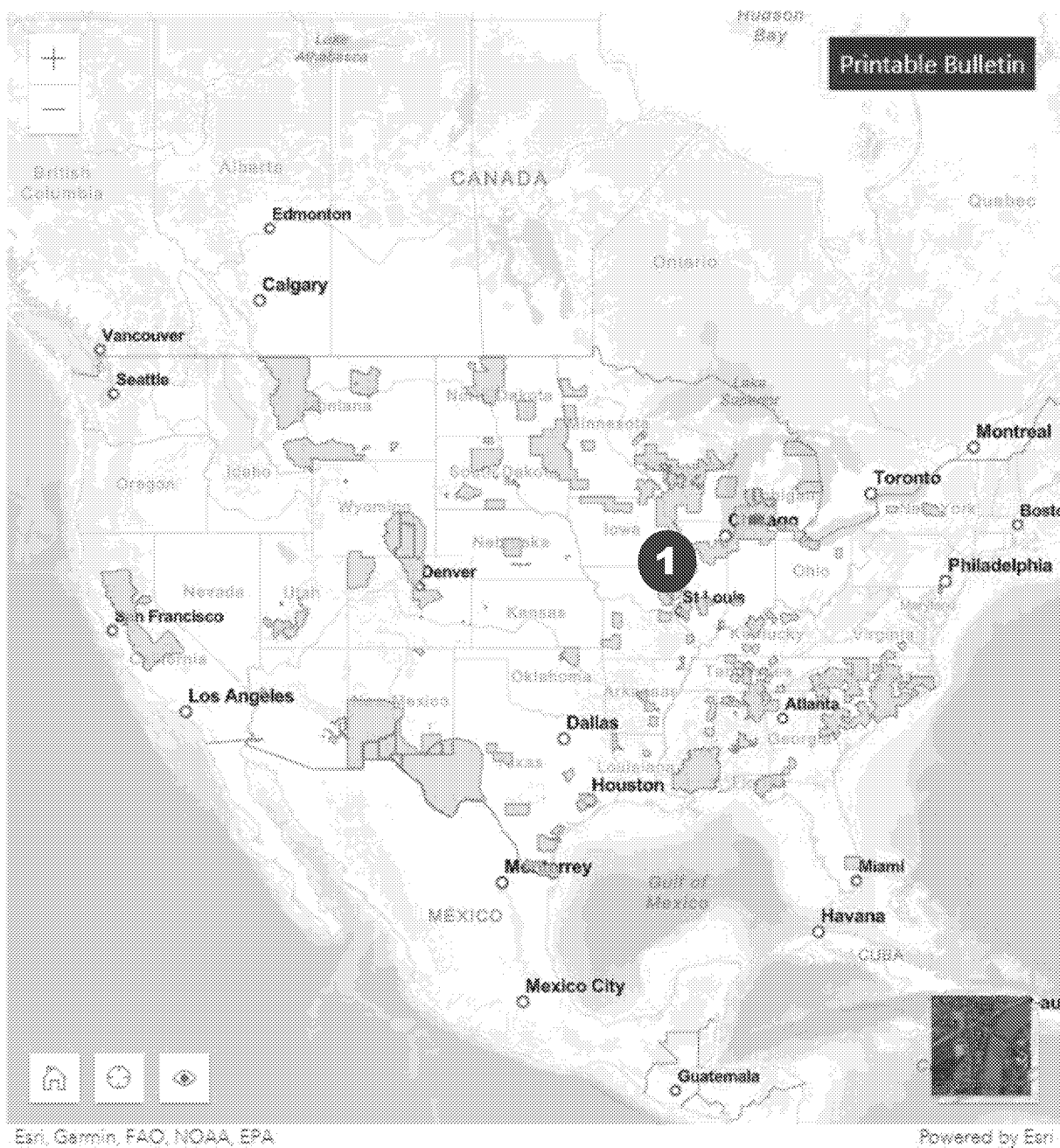
1. Navigate to your intended pesticide application area by using the "Location Search" tool or panning and zooming on the map itself.
2. Select your Application Month from the Application Date dropdown.
3. Search for a specific pesticide product using the EPA registration number and selecting from the search results. If you

Location Search:

Application Month:

EPA Registration Number:





INSTRUCTIONS

OBTAINING A BULLETIN

- 1 Zoom in or search to locate your field
| Satellite image available if needed

Directions

This tool displays Pesticide Use Limitation Areas (PULAs) for products with active Endangered Species Protection Bulletins. To generate a printable bulletin, please follow these steps:

1. Navigate to your intended pesticide application area by using the "Location Search" tool or panning and zooming on the map itself.
2. Select your Application Month from the Application Date dropdown.
3. Search for a specific pesticide product using the EPA registration number and selecting from the search results. If you

Unpin

INSTRUCTIONS

OBTAINING A BULLETIN

- 1 Zoom in or search to locate your field
| Satellite image available if needed
- 2 Designate application month
| e.g. "May 2022"

Location Search:
Find Place

Application Month:
May 2022

February 2022
March 2022
April 2022
May 2022
June 2022

INSTRUCTIONS

OBTAINING A BULLETIN

- 1 Zoom in or search to locate your field
 - | Satellite image available if needed
- 2 Designate application month
 - | e.g. "May 2022"
- 3 If your field is pink, click on the area (if not colored, **No ESA Limitation**)
 - | Outline of area should be highlighted

Limitations for Selected Area

Pula ID: 52
Event Name: Dicamba - 2020
Application Month: May 2022

Product	Count
A21472 PLUS VAPORGRIP TECHNOLOGY (100-1623) Alternate Names: TAVIUM PLUS VAPORGRIP TECHNOLOGY	1
ENGENIA HERBICIDE (7969-472)	1
FEXAPAN PLUS VAPORGRIP TECHNOLOGY (352-938)	1
TAVIUM PLUS VAPORGRIP TECHNOLOGY (23) Alternate Names: TAVIL APORGRIP TECHNOLOGY	1
XTENDIMAX WITH VAPORGRIP TECHNOLOGY (264-1210) Alternate Names: M1768 Herbicide	1

Full Details

Clear Selected Zoom To Selected

+

-

Current Selection

3

Printable Bulletin

Mexar | Esri, HERE, Garmin

Powered by Esri

Limitations for Selected Area

Pula ID: 52
 Event Name: Dicamba - 2020
 Application Month: May 2022

Product	Count
A21472 PLUS VAPORGRIP TECHNOLOGY (100-1623) Alternate Names: TAVIUM PLUS VAPORGRIP TECHNOLOGY	1
ENGENIA HERBICIDE (7969-472)	1
FEXAPAN PLUS VAPORGRIP TECHNOLOGY (352-938)	1
TAVIUM PLUS VAPORGRIP TECHNOLOGY (100-1623) Alternate Names: TAVIUM PLUS VAPORGRIP TECHNOLOGY	1
XTENDIMAX WITH VAPORGRIP TECHNOLOGY (264-1210) Alternate Names: M1768 Herbicide	1

4

Full Details

Clear Selected

Zoom To Selected

Limitations for Selected Area

D120	XTENDIMAX WITH VAPORGRIP TECHNOLOGY (264-1210) Alternate Names: M1768 Herbicide	Dicamba, diglycolamine salt	Dicamba-Tolerant Soybean	Ground spray	Liquid	To protect federally listed threatened and endangered species, both a 310-foot in-field wind-directional spray drift buffer and a 57-foot omnidirectional in-field buffer are required. If applying to dicamba-tolerant soybeans with a qualified hooded sprayer, both a 240-foot in-field wind-directional spray drift buffer and a 57-foot omnidirectional in-field buffer are required to protect federally listed threatened and endangered species. Please see the label for a link to the website(s) with your product's qualified hooded sprayers. The following areas may be included in the buffer distance composition when directly adjacent to the treated field edges: 1. Roads, paved or gravel surfaces, mowed grassy areas adjacent to field, and areas of bare ground from recent plowing or grading that are contiguous with the treated field. 2. Planted agricultural fields containing dicamba-resistant plantings of cotton and soybeans. 3. Areas covered by the footprint of a building, silo, or other man made structure with walls and or roof.
						To protect federally listed threatened and endangered species, both a 310-foot in-field

*All pesticides with limitations in the PULA will be listed.
 This example only shows XtendiMax for illustration purposes.

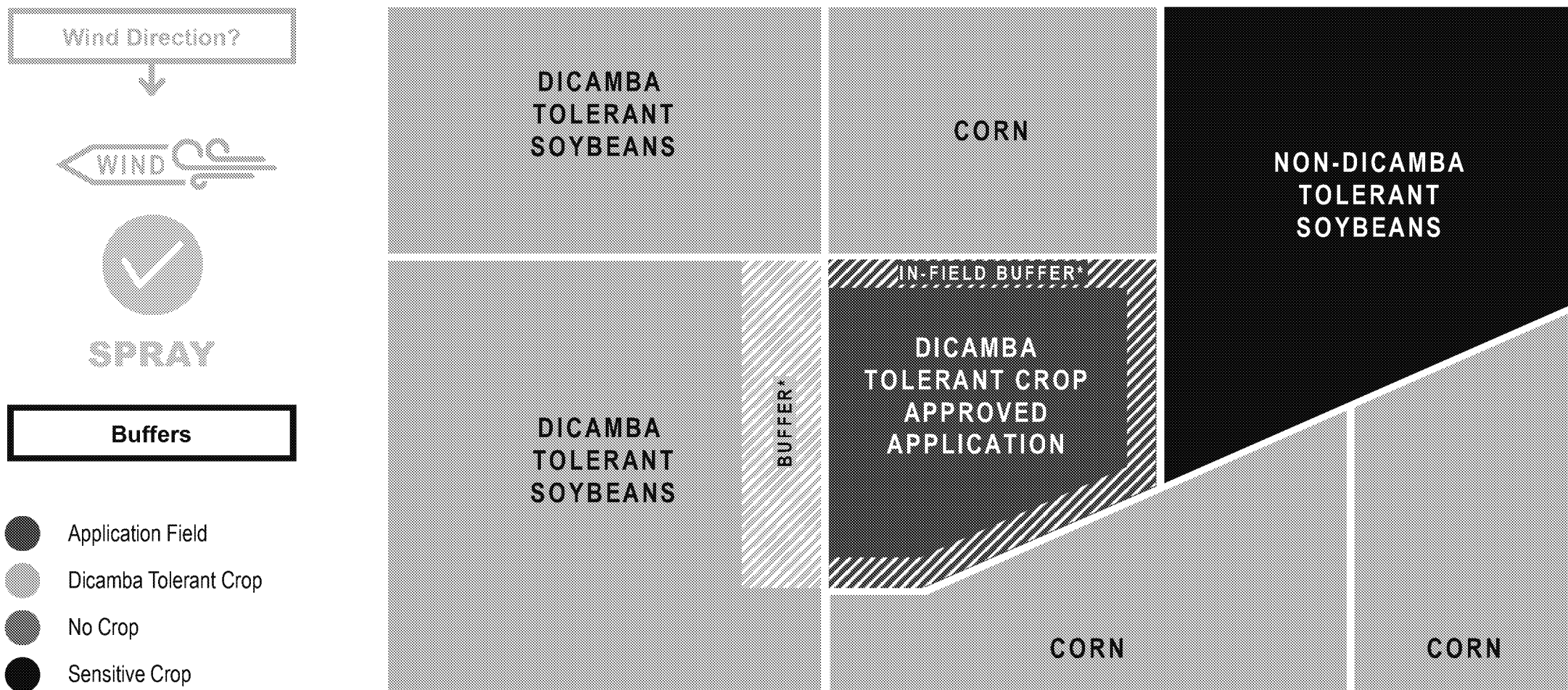
ESA BUFFER REQUIREMENTS SUMMARY

FOR ESA AREAS REQUIRING OMNIDIRECTIONAL BUFFER

- To protect federally listed threatened and endangered species, both a **310-foot in-field wind-directional** spray drift buffer and a **57-foot omnidirectional in-field buffer** are required.
 - **If applying with a qualified hooded sprayer**, both a 240-foot in-field wind-directional spray drift buffer and a 57-foot omnidirectional in-field buffer are required to protect federally listed threatened and endangered species. Please see the label for a link to the website(s) with your product's qualified hooded sprayers.
- The following areas may be included in the buffer distance composition when directly adjacent to the treated field edges:
 - Roads, paved or gravel surfaces, mowed grassy areas adjacent to field, and areas of bare ground from recent plowing or grading that are contiguous with the treated field.
 - Planted agricultural fields containing dicamba-resistant plantings of cotton and soybeans.
 - Areas covered by the footprint of a building, silo, or other man-made structure with walls and or roof.

ESA BUFFER PROTECTION

AREA OR COUNTY REQUIRING OMNIDIRECTIONAL BUFFER

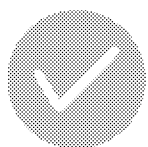


*BUFFER COMPOSITION IS 310' DOWNWIND (MAY BE REDUCED WHEN UTILIZING QUALIFIED DRT) WITH 57' OMNIDIRECTIONAL.

ESA BUFFER PROTECTION

AREA OR COUNTY REQUIRING OMNIDIRECTIONAL BUFFER

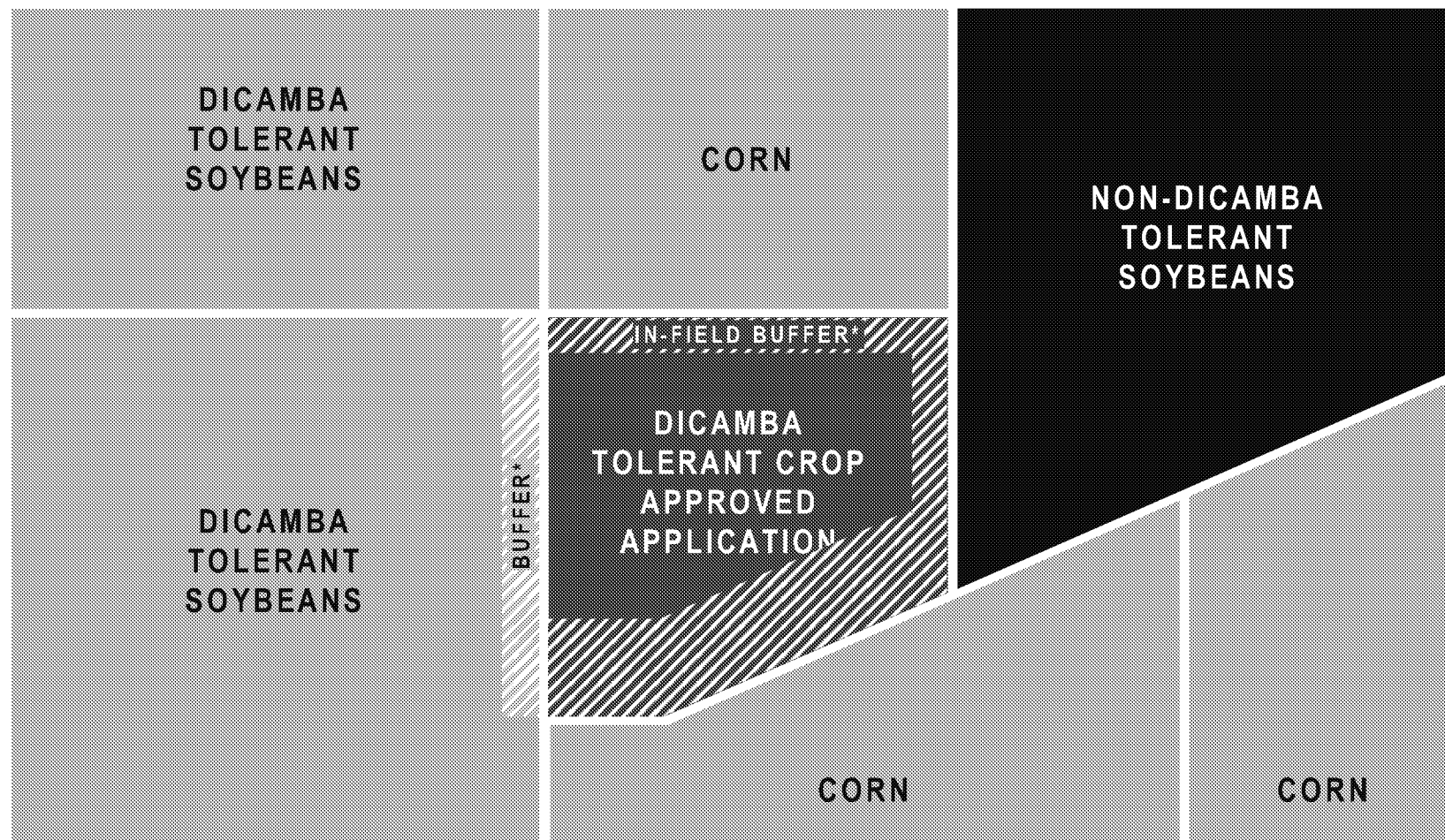
Wind Direction?



SPRAY

Buffers

- Application Field
- Dicamba Tolerant Crop
- No Crop
- Sensitive Crop



*BUFFER COMPOSITION IS 310' DOWNWIND (MAY BE REDUCED WHEN UTILIZING QUALIFIED DRT) WITH 57' OMNIDIRECTIONAL.

WEED RESISTANCE MANAGEMENT TRAINING



PRINCIPLES OF WEED RESISTANCE MANAGEMENT



**Long-term
Strategy**

Long-term herbicide resistance management requires more than weed control aimed at minimizing yield loss in a single year

Adopt a multi-year approach

- Knowing existing resistance
- Crop rotation

Effective herbicide resistance management combines:

- Proper scouting (before and after applications)
- System approach to chemical application
 - Multiple Sites of Action
 - Overlapping residuals
- Ensure effective chemical applications
 - **Timely applications (< 4 inch weeds)**



PRINCIPLES OF WEED RESISTANCE MANAGEMENT



Use Cultural As Well As Chemical Practices for Weed Management

- Crop rotation
- Cover crops/crop residue
- Sound agronomic practices to increase crop competition
 - Row spacing (example left)
 - Pest management
 - Soil health



*University of Wisconsin, R. Werle, 2020. 140K population, planted same day.

PRINCIPLES OF WEED RESISTANCE MANAGEMENT

Multiple sites of action that are effective against the most troublesome weeds

- Choosing effective site of action is key
- Knowing if herbicide is active preemergence, postemergence, or both is important to understand
- Whenever practical, Multiple Sites of Action should be applied in the same application for PRE and POST weed control



<https://iwilltakeaction.com/uploads/files/2020-take-action-herbicide-classification-chart.pdf>

HERBICIDE CLASSIFICATION

MODE OF ACTION (MOA) and **SITE OF ACTION (SOA)** are the primary classification criteria. The chart lists numerous herbicide products, including Atrazine, Glyphosate, and others, categorized by their MOA and SOA.

PREMIX section lists herbicide products that are premixtures of different MOAs.

For more information and links to additional resources, visit: iwilltakeaction.com

WEED EXAMPLES



COMMON WATERHEMP

Amaranthus rudis

SEEDS/PLANT
250K

	1	2	4	5	9	14	15	27	27
SITE OF ACTION	ACCASE INHIBITORS	ALS INHIBITORS	SYNTHETIC AUXINS	PHOTOSYSTEM II INHIBITORS	EPSP SYNTHASE INHIBITOR	PPO INHIBITORS	LONG-CHAIN FATTY ACID INHIBITORS	HPPD INHIBITORS	HPPD INHIBITORS
PRODUCT EXAMPLES (Trade Name)	Assure II Select Max								Callisto, Laudis
KNOWN RESISTANCE									



WEED EXAMPLES



PALMER AMARANTH

Amaranthus palmeri

SEEDS/PLANT
600K

2	3	4	5	9	10	14	15	27
ALS INHIBITORS	MICROTUBULE INHIBITORS	SYNTHETIC AUXINS	PHOTOSYSTEM II INHIBITORS	EPSP SYNTHASE INHIBITOR	GLUTAMINE SYNTHETASE INHIBITOR	PPO INHIBITORS	LONG-CHAIN FATTY ACID INHIBITORS	HPPD INHIBITORS
KNOWN RESISTANCE								



EFFECTIVE APPLICATIONS

WEED HEIGHT



*2018. Tennessee.
Palmer Pigweed

FOR BEST RESULTS, SPRAY WEEDS THAT ARE 4 INCHES OR SHORTER

2022 Season

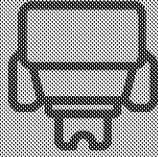
These training materials are designed to satisfy federal training requirements. Please check with your state pesticide regulatory agency for additional training and application requirements imposed by your state. V3-3/22

53

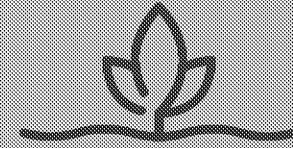
ED_014195_0000084-00059

APPLICATIONS OF LOW-VOLATILITY FORMULATIONS OF DICAMBA

WEED RESISTANCE MANAGEMENT



USE ONLY THE LABELED RATE for all applications (0.5 lb ae/A)



Consider **ENVIRONMENTAL FACTORS** for applications

BRAND	RATE
XtendiMax® Herbicide with VaporGrip® Technology (Bayer)	22 fl oz/A
Engenia® Herbicide (BASF)	12.8 fl oz/A
Tavium® Plus VaporGrip® Technology herbicide (Syngenta)	56.5 fl oz/A

+ Approved VRA, and DRA if required*

* see product label website for approved tank-mix (eg www.xtendimaxapplicationrequirements.com)

4 hour rainfast period

Drought and cold stress can reduce effectiveness

Spray while weeds are actively growing

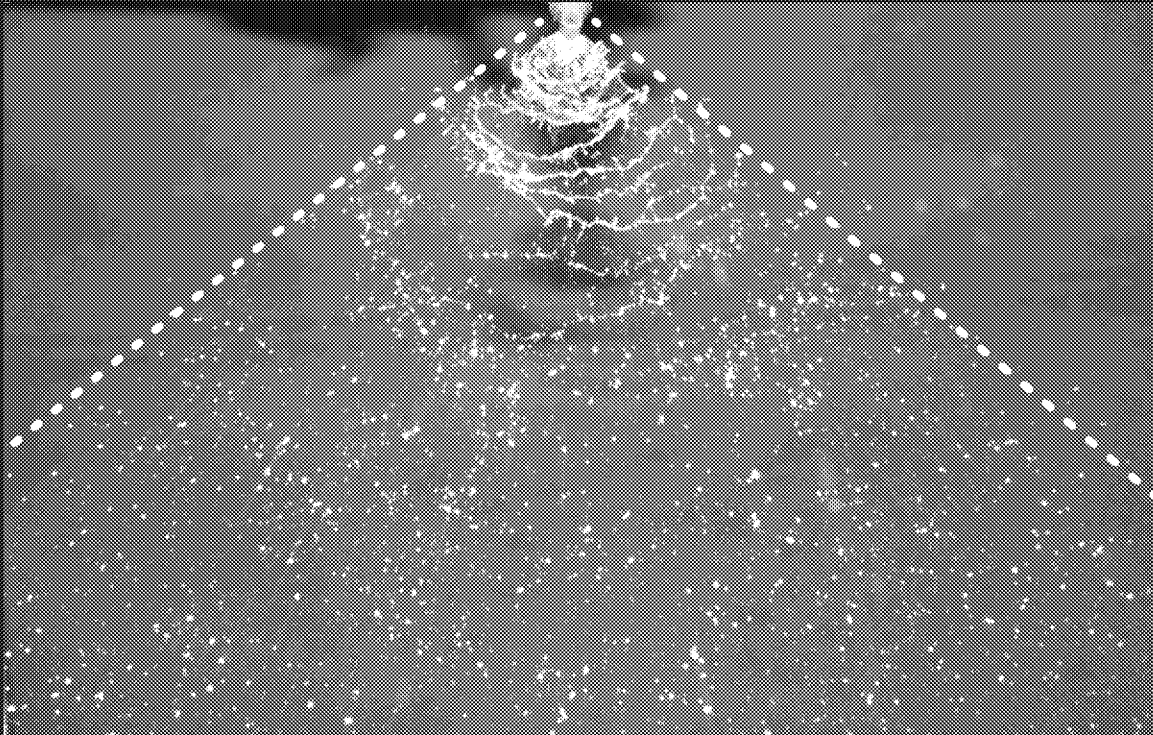
PRESSURE IMPACT ON WEED COVERAGE

SPRAY PRESSURE SHOULD BALANCE WEED COVERAGE AND PRODUCTION OF FINE SPRAY PARTICLES

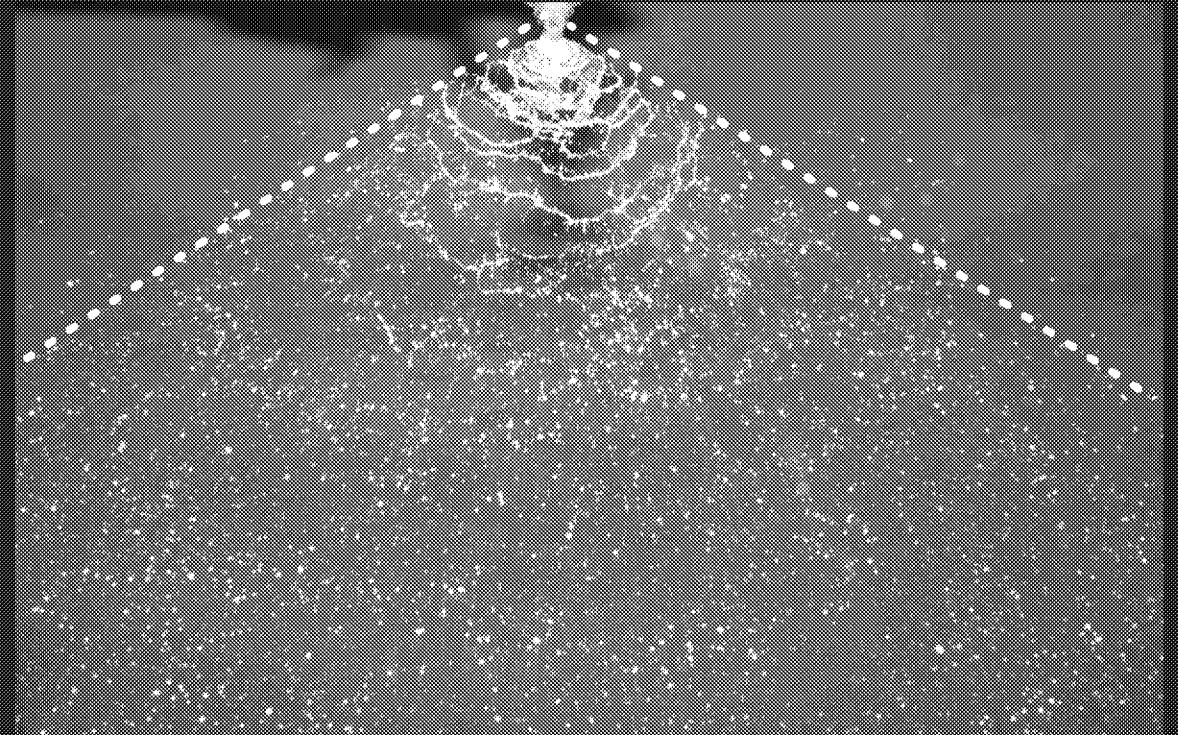
1 Both pressures shown below are within approved range; yet higher PSI improves coverage

2 Ensure appropriate sprayer ground speed and operating pressure

30 PSI - INCOMPLETE PATTERN



60 PSI - FULL PATTERN



Approved Dicamba + Approved Glyphosate + Approved DRA (0.5% v/v) + Approved VRA
Applied at 15 GPA

CROP SPECIFIC RESTRICTIONS

IN THE ROUNDUP READY® XTEND CROP SYSTEM

Approved dicamba formulations may be applied to crops with Roundup Ready 2 Xtend® Technology or XtendFlex® Technology up to and including **June 30 for soybeans** and **July 30 for cotton**.

PRE-EMERGENT/BURNDOWN:

Apply 0.5 lb ae/acre in single application

Two applications maximum before crop emergence

IN-CROP:

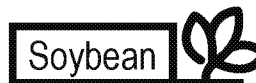
Apply 0.5 lb ae/acre in single application

Two applications maximum after emergence

Maximum seasonal use rate allowance for dicamba products is 2 lbs ae/acre.

Refer to specific product labels for product rates and growth stage timings for crop response concerns; e.g. R1 for soybeans with XtendiMax® Herbicide with VaporGrip® Technology.

EXAMPLE OF GOOD WEED MANAGEMENT SYSTEM



ROUNDUP READY 2 XTEND® SOYBEANS*

Overlapping residual herbicides are important along with multiple sites of action

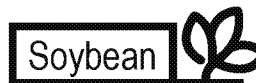
TIMING	PRACTICE	EXAMPLE RECOMMENDATION**
Before Planting	Burndown or Start Clean with Tillage	Roundup PowerMAX® Herbicide (32 oz) + XtendiMax® Herbicide with VaporGrip® Technology (22 oz) + labeled Drift Reduction Adjuvant (DRA) + labeled Volatility Reduction Adjuvant (VRA)
At Planting	Pre	Valor® EZ Herbicide (2 oz), Valor® XLT Herbicide (3 oz), Fierce® Herbicide (3 oz) or Warrant® Herbicide (3-4 pt) + metribuzin (0.25 lb)
Post 1 Over-the-top	Post 1 < 4" weeds and within 20-30 days after PRE Application	Roundup PowerMAX® Herbicide (32 oz) + XtendiMax® Herbicide with VaporGrip® Technology (22 oz) + labeled DRA + labeled VRA Warrant® Herbicide (3-4 pt) or Warrant® Ultra Herbicide (50 oz)
Post 2 Over-the-top	Post 2	Cobra® Herbicide (10 oz) + COC (1% v/v) to control any weed escapes prior to R6

*Check with your local dealer or representative or U.S. EPA and your state pesticide regulatory agency for the product registration status and additional restrictions in your state.

**Contact your local retailer, company representative or extension service for specific regional weed management recommendations.

EXAMPLE OF GOOD WEED MANAGEMENT SYSTEM

XTENDFLEX® SOYBEANS*



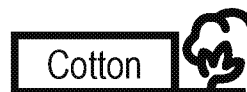
Overlapping residual herbicides are important along with multiple sites of action

TIMING	PRACTICE	EXAMPLE RECOMMENDATION**
Before Planting	Burndown or Start Clean with Tillage	Roundup PowerMAX® Herbicide (32 oz) + XtendiMax® Herbicide with VaporGrip® Technology (22 oz) + labeled Drift Reduction Adjuvant (DRA) + labeled Volatility Reduction Adjuvant (VRA)
At Planting	Pre	Valor® EZ Herbicide (2 oz), Valor® XLT Herbicide (3 oz), Fierce® Herbicide (3 oz) or Warrant® Herbicide (3-4 pt) + metribuzin (0.25 lb)
Post 1 Over-the-top	Post 1 < 4" weeds and within 20-30 days after PRE Application	Roundup PowerMAX® Herbicide (32 oz) + XtendiMax® Herbicide with VaporGrip® Technology (22 oz) + labeled DRA + labeled VRA Warrant® Herbicide (3-4 pt) or Warrant® Ultra Herbicide (50 oz)
Post 2 Over-the-top	Post 2	Liberty® Herbicide (29 oz) to control any weed escapes up to R1 growth stage

*Check with your local dealer or representative or U.S. EPA and your state pesticide regulatory agency for the product registration status and additional restrictions in your state.

**Contact your local retailer, company representative or extension service for specific regional weed management recommendations.

EXAMPLE OF GOOD WEED MANAGEMENT SYSTEM



COTTON WITH XTENDFLEX® TECHNOLOGY*

Overlapping residual herbicides are important along with multiple sites of action

TIMING	PRACTICE	EXAMPLE RECOMMENDATION**
Before Planting	Early Burndown or Start Clean with Tillage	Roundup PowerMAX® II Herbicide (32 oz) + 2,4-D (16-32oz) or dicamba (0.25-0.5 lb)
At Planting	Pre	Gramoxone® SL 2.0 Herbicide (2-4 pt) + Warrant® Herbicide (3 pt) + diuron (1.5 pt)
Post	Post 1 < 4" weeds and within 14-18 days after planting	Roundup PowerMAX® II Herbicide (32 oz) + XtendiMax® Herbicide with VaporGrip® Technology (22 oz) + Warrant® Herbicide (3 pt) + labeled Drift Reduction Adjuvant (DRA) + labeled Volatility Reduction Adjuvant (VRA)
Post	Post 2 32-39 days after planting	Roundup PowerMAX® II Herbicide (32 oz) + XtendiMax® Herbicide with VaporGrip® Technology (22 oz) + labeled DRA + labeled VRA or Liberty® Herbicide (32 oz)
Post	Lay-by hooded sprayer	Diuron (1.5 pt) + Roundup PowerMAX® II Herbicide (32 oz) or MSMA (2 lbs ai)

*Check with your local dealer or representative or U.S. EPA and your state pesticide regulatory agency for the product registration status and additional restrictions in your state.

**Contact your local retailer, company representative or extension service for specific regional weed management recommendations.

WEED MANAGEMENT IN BUFFER AREA

Weed management in buffer areas should be unique to each situation. Options include:

- Glufosinate in XtendFlex® soybeans/cotton
 - PPO or other herbicide options
- Use higher labeled rates of residual herbicides and additional SOA in possible buffer areas
- XtendiMax® Herbicide with VaporGrip® Technology may be applied in certain areas used as downwind buffer areas in a previous application
 - Wait for change in wind direction, determine new buffer distances and adhere to all other application requirements (including endangered species restrictions)
- Contact your Bayer technical or sales representatives for local recommendations

CONTACT THE APPROPRIATE COMPANY IF YOU:

- Experience poor performance on labelled weeds or suspect weed resistance
- Have off-target movement inquiries
- Have crop response inquiries
- Have questions about sensitive crop registries
- Suspect any misuse of dicamba products, including the use of unapproved formulations

XtendiMax

1-844-RRXTEND

Tavium

1-866-796-4368

www.syngenta-us.com

Engenia

www.engeniaquestions.com

CERTIFICATE OF COMPLETION

Make sure you check out before leaving in-person meetings

The certificate will be emailed to you within 24-48 hours

It will come from dicamba.training.bayer@cventemail.com

Didn't get the email? Try this first:

Check your SPAM or junk email box

Turn off pop-up blockers

Still missing the email?

Call 1-844-RRXTEND between 8:00 a.m.
and 5:00 p.m. central time, weekdays

We will confirm your email and resend
the certificate

DISCLAIMER

Bayer is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Commercialized products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

XtendiMax® herbicide with VaporGrip® Technology is part of the Roundup Ready® Xtend Crop System, is a restricted use pesticide and must be used with VaporGrip® Xtra Agent (or an equivalent vapor reducing agent). For approved tank-mix products (including VRAs and DRAs), nozzles and other important label information visit XtendiMaxApplicationRequirements.com.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or products with XtendFlex® Technology.

Products with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your seed brand dealer or refer to the Bayer Technology Use Guide for recommended weed control programs.

XtendiMax® is a restricted use pesticide. Not all products are registered in all states and may be subject to use restrictions. The distribution, sale, or use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited. Check with your local dealer or representative for the product registration status in your state. Roundup PowerMAX®, Roundup Ready 2 Yield®, Roundup Ready®, VaporGrip®, Warrant®, XtendFlex® and XtendiMax® are registered trademarks of Bayer Group. Gramoxone® is a registered trademark of a Syngenta group company. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. Cobra® and Valor® are registered trademarks of Valent U.S.A. Corporation. Some of the product(s) discussed herein are restricted use pesticide(s) and may not be registered in all states. The distribution, sale, or use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited. Check with your local dealer or product representative for the product registration status in your state. For additional product information call toll-free 1-866-99-BAYER (1-866-992-2937) or visit our website at www.BayerCropScience.us. Bayer CropScience LP, 800 North Lindbergh Boulevard, St. Louis, MO 63167. ©2020 Bayer Group. All rights reserved.



APPENDIX



THE FOLLOWING STATES DO NOT HAVE ADDITIONAL APPLICATION REQUIREMENTS AT THIS TIME – 3/15/22

- Arizona
- Colorado
- Delaware
- Kansas
- Louisiana
- Maryland
- Mississippi
- Missouri
- New Jersey
- New York
- New Mexico
- North Dakota
- Pennsylvania
- South Carolina
- Tennessee
- Virginia
- West Virginia

ADDITIONAL APPLICATION REQUIREMENTS FOR ARKANSAS



ADDITIONAL APPLICATION REQUIREMENTS FOR ARKANSAS (UPDATED MAY, 2021)

Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state

Full Regulations found in Class H section of ARKANSAS REGULATIONS ON PESTICIDE USE Agency No. 209.0 available at:

<https://www.agriculture.arkansas.gov/wp-content/uploads/2021/05/New-Rules-for-Dicamba-Use-Effective-May-8.pdf>

The following is a selection of rules specific to Dicamba product uses in dicamba-tolerant crops in Arkansas as of May, 2021.

- Application cutoff in dicamba-tolerant soybeans and cotton is June 30th
 - Pre-plant applications of approved in crop dicamba formulations are allowed from April 16th – June 30th
 - Pre-plant applications of non-approved dicamba formulations are prohibited April 16th – October 31st
- Applications of dicamba are prohibited from July 1st to October 31st
- Maintain a ¼ mile buffer, in all directions, from non dicamba-tolerant crops
- Maintain a ½ mile buffer, in all directions, from certified organic crops and commercially grown specialty crops
- Maintain a 1 mile buffer, in all directions, from University or USDA research stations
- Do not tank mix with glyphosate

ADDITIONAL APPLICATION REQUIREMENTS FOR ARKANSAS (UPDATED MAY, 2021)

Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state

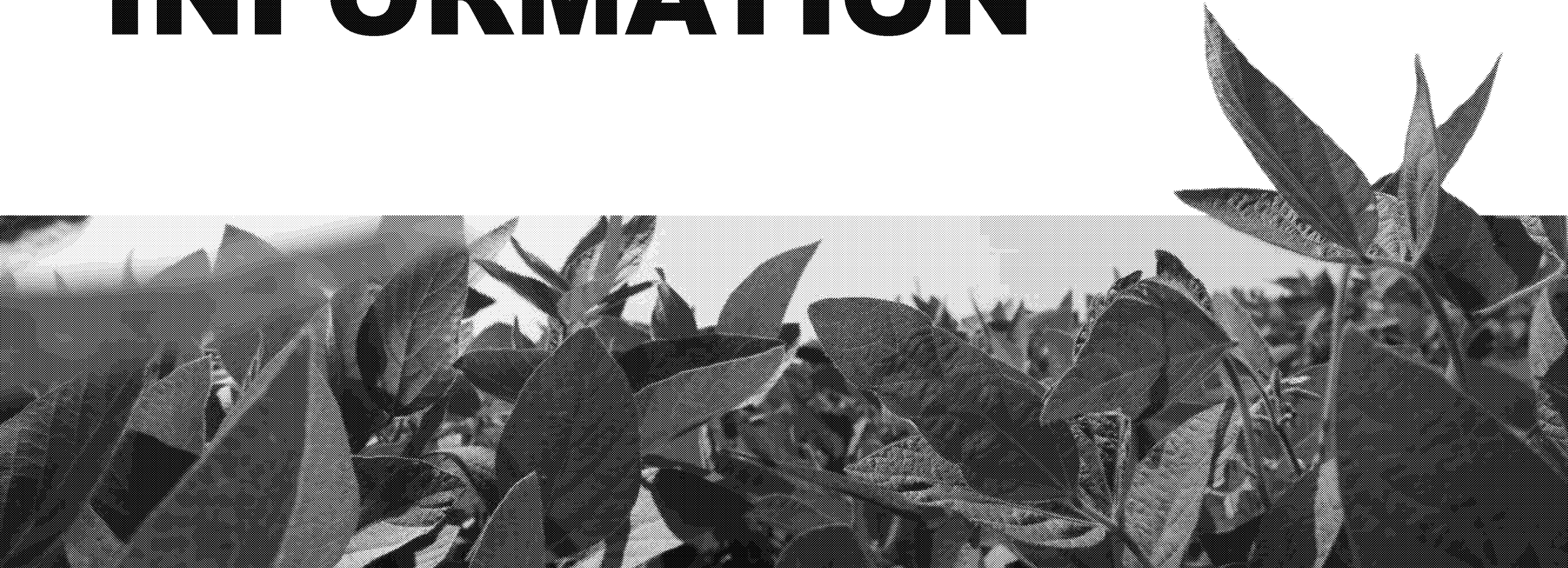
Record keeping requirements additional to the federal requirements

- Application records must be kept for 3 years and must be available for inspection by Plant Board representatives
- In addition to the records required by the federal label, applicators must record:
 - Type of equipment used, and Firm's Application Equipment Number if applied by a commercial applicator
 - Type of instrument used to measure wind speed and direction and location of instrument at the time of reading
- Visit www.xtendimaxapplicationrequirements.com for an Arkansas record keeping form.

Training

- Applicators must provide proof of annual dicamba training to Pesticide Dealers prior to purchase

ILLINOIS SUPPLEMENTAL INFORMATION



IL-SPECIFIC REQUIREMENTS

Use of Pesticides Containing Dicamba on Soybeans

Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state

In addition to the requirements of the federally-approved labels, all use on soybeans of pesticides containing dicamba shall comply with the following requirements:

- Application on soybeans of a pesticide containing dicamba shall not be made if the wind is blowing toward:
 1. Any Illinois Nature Preserves Commission site that is adjacent to the field of application; or
 2. An adjacent residential area
- Before applying a pesticide containing dicamba on soybeans, the applicator shall consult the FieldWatch sensitive crop registry: <https://fieldwatch.com> and comply with all associated record keeping and label requirements.

IL-SPECIFIC REQUIREMENTS

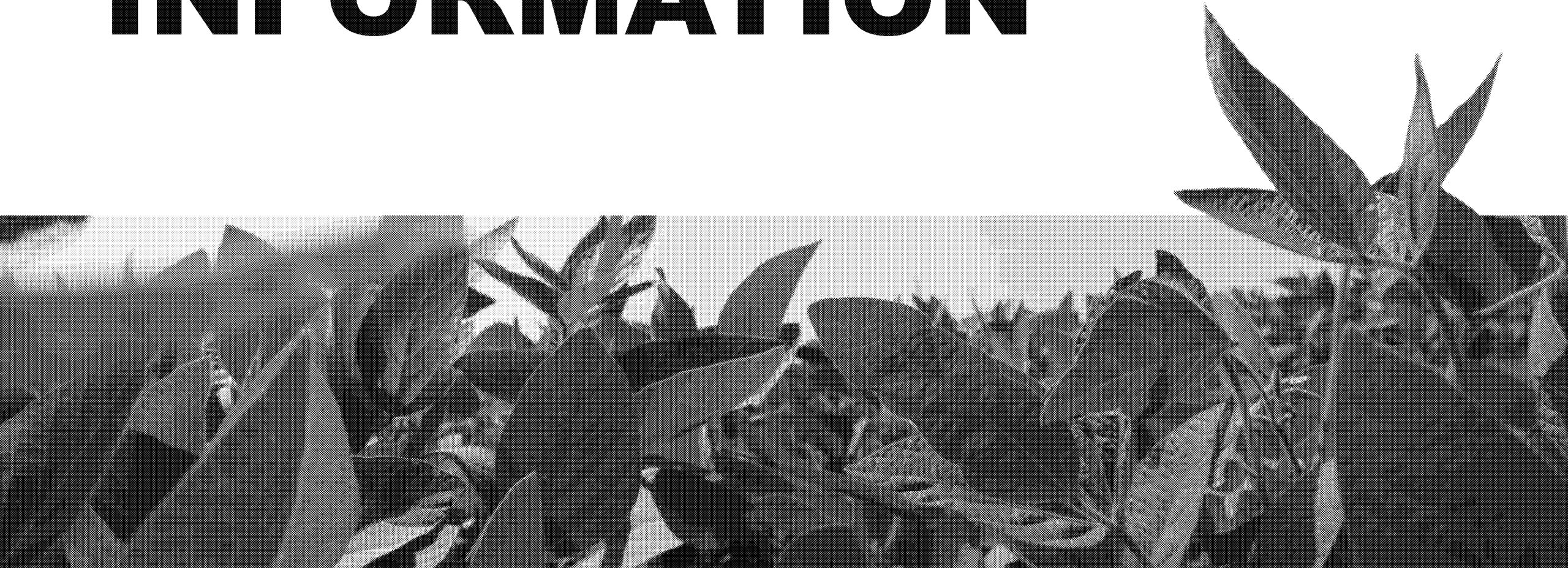
Use of Pesticides Containing Dicamba on Soybeans

In addition to the requirements of the federally-approved labels, all use on soybeans of pesticides containing dicamba shall comply with the following requirements:

Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state

- Temperature Restriction: A pesticide containing dicamba shall not be applied on soybeans if the air temperature at the field at the time of application is over 85 degrees Fahrenheit or if the National Weather Services forecasted high temperature for the nearest available location for the day of application exceeds 85 degrees Fahrenheit. Local National Weather Service forecasts are available at <https://www.weather.gov>.
- Cut-off Date Restrictions: Application on soybeans of a pesticide containing dicamba shall not be made after June 20 of each year.

INDIANA SUPPLEMENTAL INFORMATION

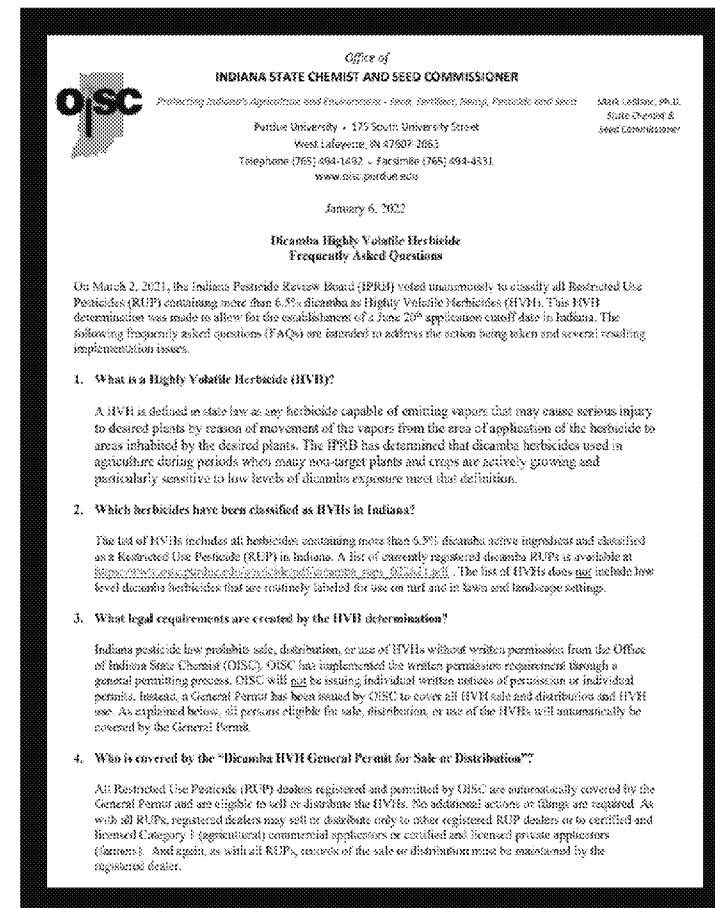


IN-SPECIFIC REQUIREMENTS

- Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state including the Dicamba HVH FAQ 1-6-2022: https://oisc.purdue.edu/pesticide/pdf/hvh_faq.pdf

The following is a selection of state rules specific to HVH's:

- Highly volatile herbicides (HVH's) include all herbicides containing more than 6.5% dicamba active ingredient and classified as a Restricted Use Pesticide (RUP) in Indiana.
- For a list of currently registered dicamba RUPs see:
https://www.oisc.purdue.edu/pesticide/pdf/dicamba_rups_022621.pdf
- HVHs may not be applied during the period **June 21st through August 31st**. This applies to all dicamba HVHs, regardless of the target crop or site to which it is being applied.
- Annual dicamba training from other states will be acceptable for Indiana applicators if that training includes a documentable link or reference to:
 - Dicamba HVH FAQ 1-6-2022



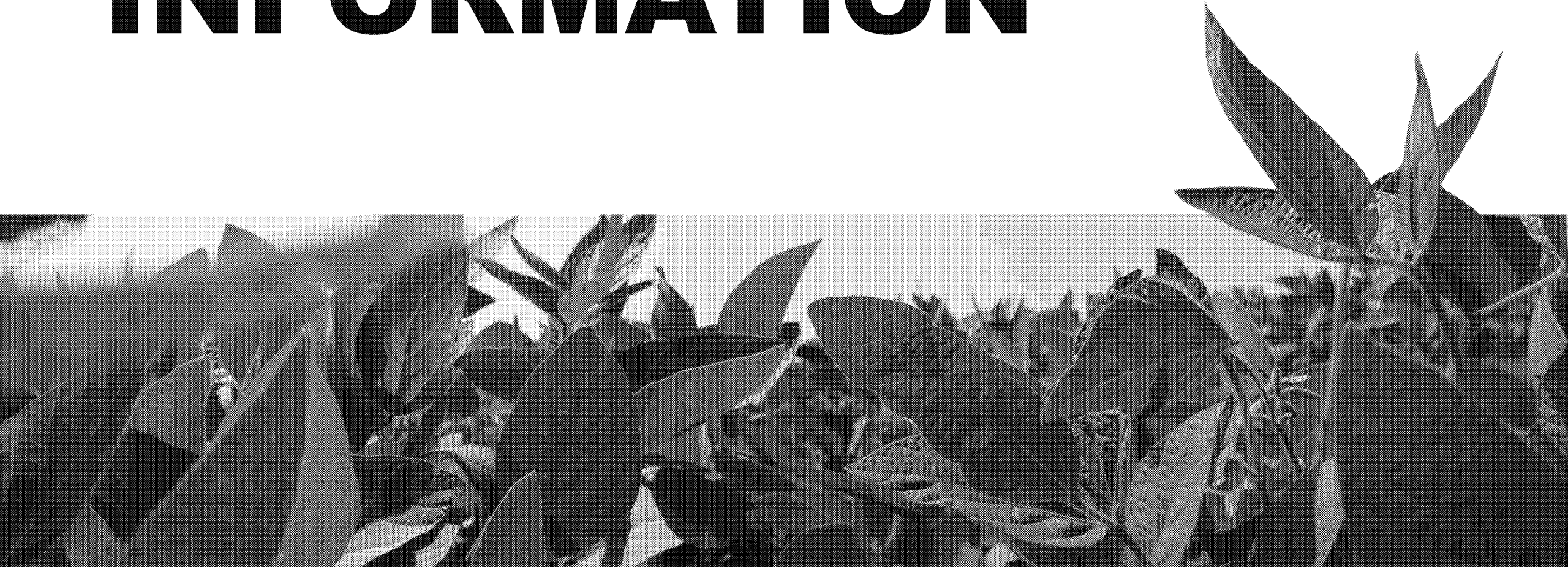
IN-SPECIFIC REQUIREMENTS

- Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state including the Dicamba HVH FAQ 1-6-2022:
https://oisc.purdue.edu/pesticide/pdf/hvh_faq.pdf

The following is a selection of state rules specific to HVH's:

- All certified and licensed Category 1 (agricultural) commercial applicators and all certified and licensed private applicators (farmers) are automatically covered by the General Permit and are eligible to apply the HVHs according to label directions, within the time periods allowed by the general permit. No additional actions or filings are required. As with all RUPs, certified and licensed applicators must comply with all label directions for use and must keep records for each application.
- All Restricted Use Pesticide (RUP) dealers registered and permitted by OISC are automatically covered by the General Permit and are eligible to sell or distribute the HVHs. No additional actions or filings are required. As with all RUPs, registered dealers may sell or distribute only to other registered RUP dealers or to certified and licensed Category 1 (agricultural) commercial applicators or certified and licensed private applicators (farmers). And again, as with all RUPs, records of the sale or distribution must be maintained by the registered dealer.

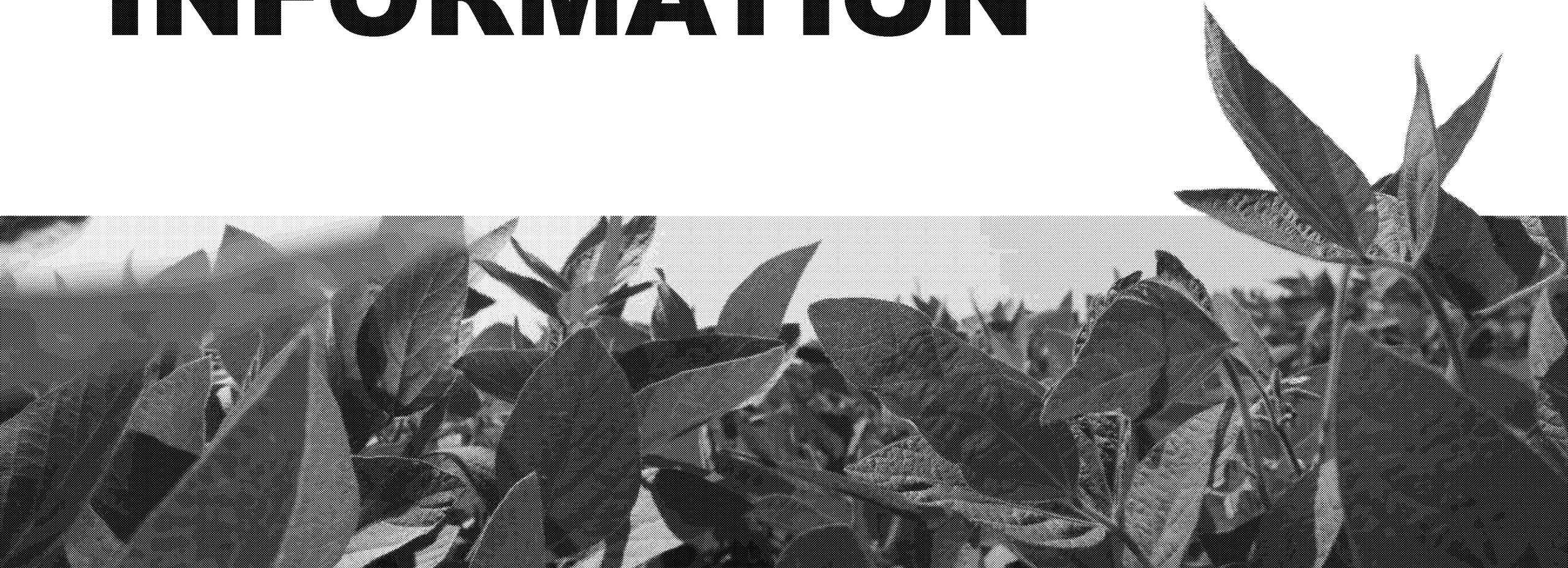
IOWA SUPPLEMENTAL INFORMATION



IN-SPECIFIC REQUIREMENTS

- Cutoff date: Do not apply after June 20.
- All applicable labeling (container, Iowa-specific and collateral) must be in the possession of the user at the time of the pesticide application

KENTUCKY SUPPLEMENTAL INFORMATION



KENTUCKY SUPPLEMENTAL INFORMATION

Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state

Per Kentucky Department of Agriculture:

- Any deviation from the product label requirements and all supplemental label/document requirements constitutes a violation of state statute or regulation.
- A violation of state statute or regulation may result in monetary penalties assessed to the violator.
- In dicamba-tolerant soybeans, DO NOT apply an approved dicamba product after June 30
- Counties requiring notice of endangered species when making dicamba applications include, but are not limited to: Barren, Bourbon, Bullitt, Fleming, Franklin, Hardin, Harrison, Henry, Jefferson, Meade, Nicholas and Warren.

DO NOT use dicamba if you are unwilling or unable to follow requirements

KENTUCKY SUPPLEMENTAL INFORMATION

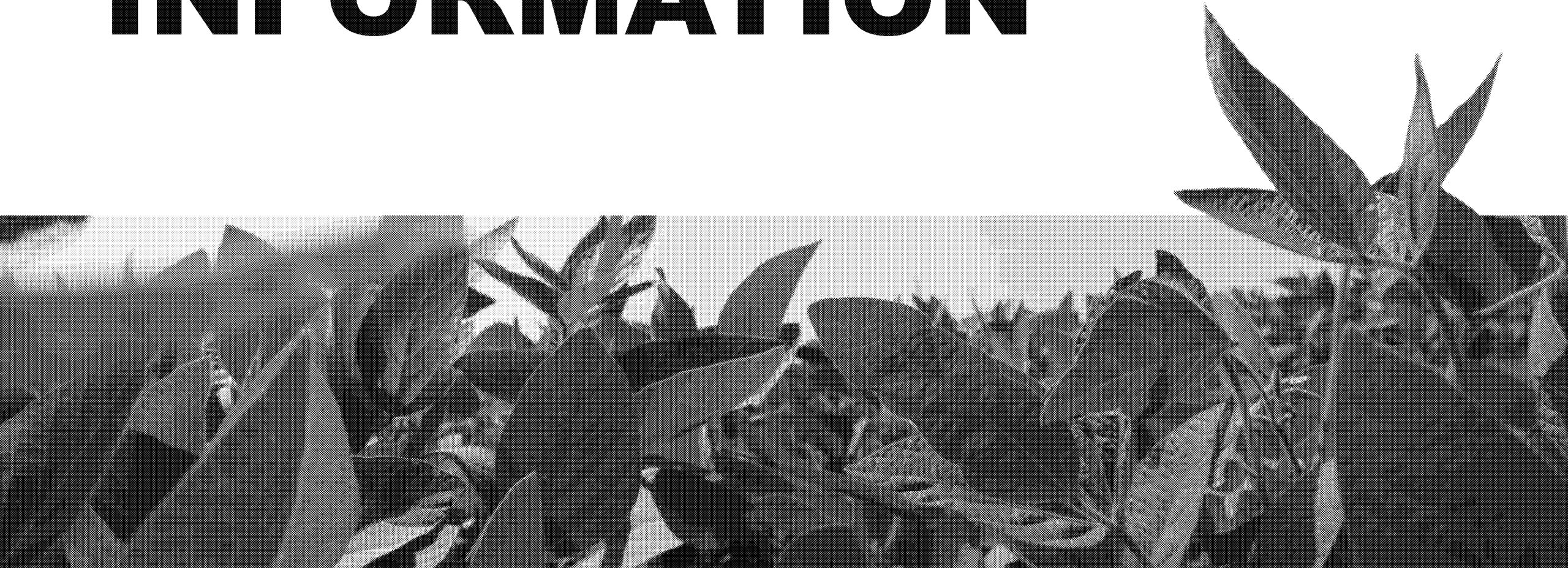
Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state

Per Kentucky Department of Agriculture:

- The Kentucky Department of Agriculture's Pesticide Inspectors will be conducting routine inspections of Private Applicators and Commercial Applicators to ensure compliance with these new label requirements.
- You must have your application records immediately available at the time of Inspection. If you utilize an electronic record keeping system, you must be able to readily access these records. **Kentucky Department of Agriculture recommendation is to complete the label's record keeping requirement after each application and keep those records on hand.**

DO NOT use dicamba if you are unwilling or unable to follow requirements

MICHIGAN SUPPLEMENTAL INFORMATION





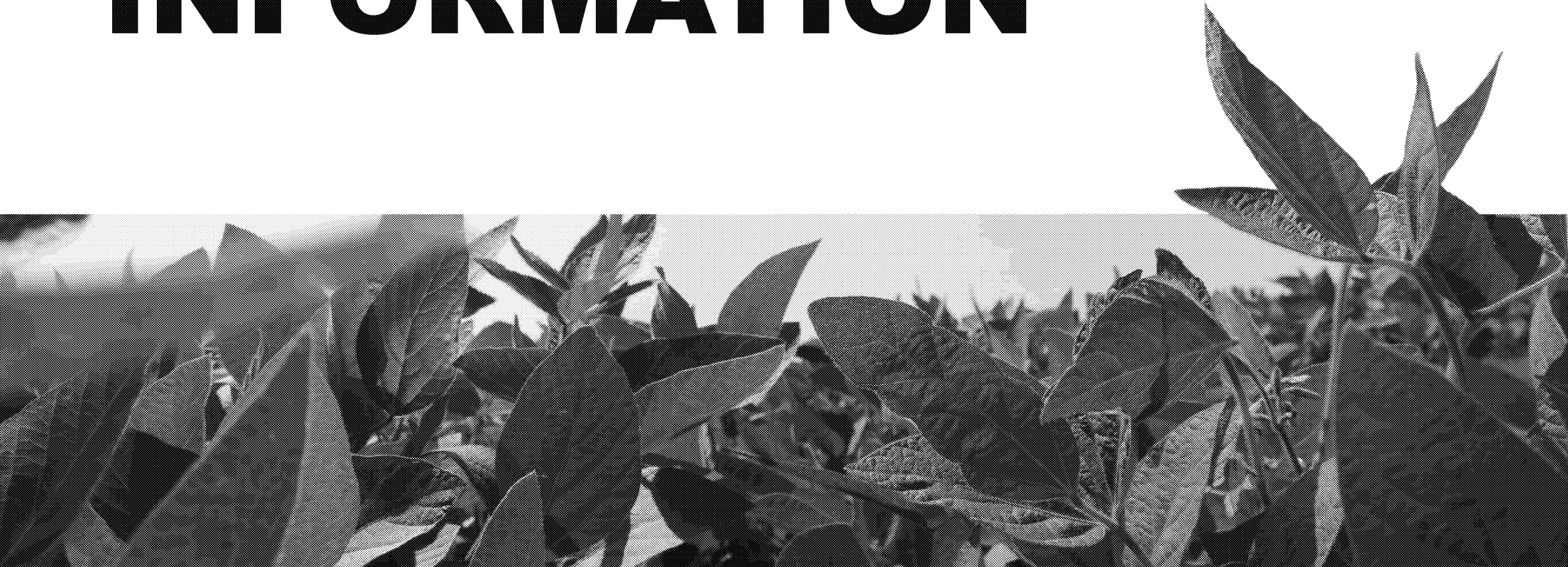
RECORD KEEPING

• MICHIGAN REQUIREMENTS

- Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state
- Records required for each application of these products.

e.g., if 10 fields are sprayed, 10 sets of records are required, including if the same field is sprayed twice
- Commercial pesticide applicators are required to maintain records of restricted use pesticide applications for 3 years (Regulation 636, Rule 15(1)).
- Private applicators do not have a recordkeeping requirement in State of Michigan law.
 - However, USDA requires that records of restricted use pesticides must be recorded no later than 14 days following a federally restricted use pesticide application and must be maintained for 2 years following the application in accordance with the 1990 Farm Bill.

MINNESOTA SUPPLEMENTAL INFORMATION



Minnesota Restrictions with Dicamba in 2022

- Dicamba is an important tool in combating herbicide resistant weeds in Dicamba Tolerant (DT) soybeans. Products containing dicamba can cause serious damage to non-dicamba-tolerant soybeans and to other sensitive crops and non-crop plants.
- The MDA received more than 300 dicamba drift related complaints during the 2021 growing season. The annual totals for alleged dicamba off-site movement complaints were:
 - 2021: 304 reports
 - 2020: 128 reports
 - 2019: 20 reports
 - 2018: 51 reports
 - 2017: 249 reports
- The MDA wishes to preserve this tool for farmers. However, it must be used without impacts on neighboring crops, homes, farms, and gardens.
- Dicamba is a Restricted Use Pesticide (RUP) that can only be applied by applicators that are licensed or certified to apply RUPs in Minnesota.

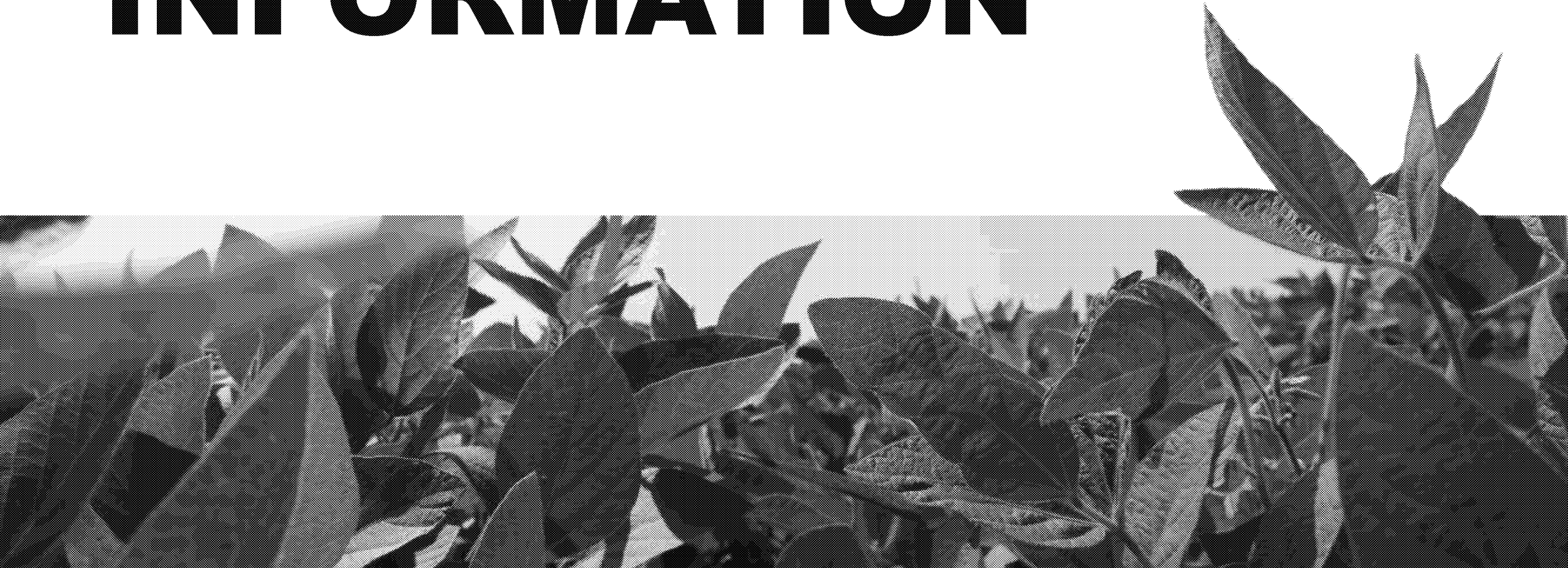
Minnesota Restrictions with Dicamba in 2022

- For the 2022 growing season, in Minnesota, the following restrictions apply to the three dicamba products, XtendiMax, Engenia, and Tavium
 - Cutoff date: Do not apply south of interstate 94 after June 12. Do not apply north of interstate 94 after June 30.
 - Cutoff Temperature for the entire state: Do not apply if the air temperature of the field at the time of application is over 85 degrees Fahrenheit or if the National Weather Service's forecasted high temperature for the nearest available location for the day exceeds 85 degrees Fahrenheit. Forecasted temperature must be recorded at the start of the application.

Minnesota Restrictions with Dicamba in 2022

- The restrictions are posted on each company's web site
- The EPA approved labeling containing the restrictions must be in the user's possession during application.
 - Check the company's web site to download the additional labeling prior to the application of any of these three dicamba products.
- Contact the product registrants with any questions regarding the availability of additional labeling

NEBRASKA SUPPLEMENTAL INFORMATION





RECORD KEEPING

• NEBRASKA REQUIREMENTS

- Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state
- Records required for each application of these products.

e.g., if 10 fields are sprayed, 10 sets of records are required, including if the same field is sprayed twice
- The certified applicator must keep required documentation for a period of three years; records must be generated as soon as practical but no later than **48 hours** after application.
- Copies of receipts for required VRA and DRA purchases are required and the amounts used in each tank load must be recorded.
- Records must be made available to State Pesticide Control Official(s), USDA and EPA upon request.

OHIO SUPPLEMENTAL INFORMATION





RECORD KEEPING

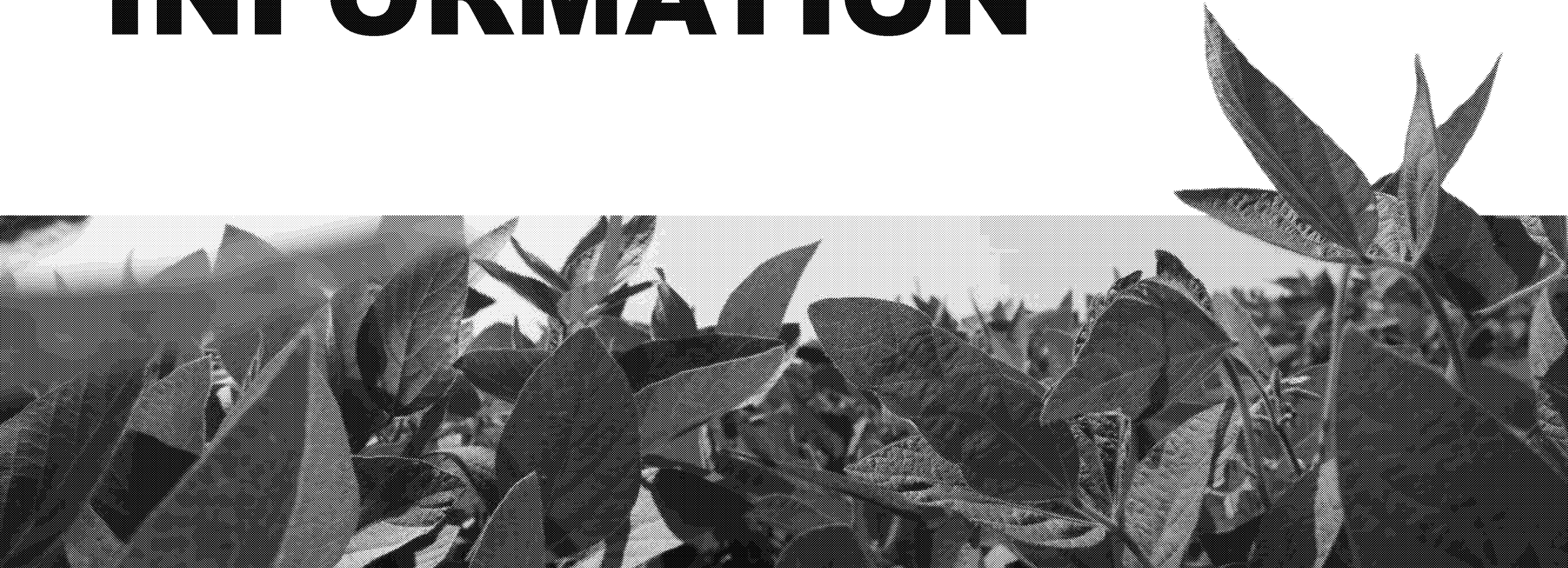
• OHIO REQUIREMENTS

- Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state
- Records required for each application of these products.

e.g., if 10 fields are sprayed, 10 sets of records are required, including if the same field is sprayed twice

- The certified applicator must keep required documentation for a period of three years; records must be generated on the day of application
- Records must be made available to State Pesticide Control Official(s) upon request.

OKLAHOMA SUPPLEMENTAL INFORMATION



OK-SPECIFIC REQUIREMENTS

Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state

- Per 35:30-17-24.1. Restricted Use Areas:

- a) Applications of products containing 2,4-D esters or dicamba as an active ingredient to agricultural lands shall not be made in Greer, Harmon, and Kiowa counties between 12:01 a.m. of May 1 of each calendar year through 11:59 p.m. of October 15 of each calendar year except in accordance with the provisions of this section.
- b) Applications of products containing 2,4-D, dicamba, picloram, triclopyr, or clopyralid as an active ingredient to agricultural lands shall not be made in Jackson and Tillman counties between 12:01 a.m. of May 1 of each calendar year through 11:59 p.m. of October 15 of each calendar year except in accordance with the provisions of this section.
- c) Any person intending to apply any of the herbicides listed in subsection (a) or (b) in the counties and during the times prohibited shall adhere to the following procedure:
 - (1) The person shall notify the Department of the intent to apply herbicides listed in subsection (a) or (b) prior to the application on a form provided by the Department.
 - (2) The person shall file a report with the Department on a form provided by the Department no later than seven (7) working days after the last application date provided in the original notification of the herbicide use.

OK-SPECIFIC REQUIREMENTS

Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state

- Per 35:30-17-24.1. Restricted Use Areas:
 - d) Failure to comply with this section shall be a violation.
 - e) All records and notifications required by this section shall be in addition to any records required to be maintained by a commercial applicator pursuant to other rules.
 - f) The provisions of this section shall not apply to applications of 2,4-DB.

SOUTH DAKOTA SUPPLEMENTAL INFORMATION





RECORD KEEPING

• SOUTH DAKOTA REQUIREMENTS

- Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state
- Records required for each application of these products.

e.g., if 10 fields are sprayed, 10 sets of records are required, including if the same field is sprayed twice

- The certified applicator must keep required documentation for a period of three years; records must be generated on the day of application
- Copies of receipts for required VRA and DRA purchases are required and the amounts used in each tank load must be recorded.
- Records must be made available to State Pesticide Control Official(s), USDA and EPA upon request.

TEXAS SUPPLEMENTAL INFORMATION



TX-SPECIFIC REQUIREMENTS

Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state

- TDA has a recordkeeping form available at:
<https://www.texasagriculture.gov/Portals/0/forms/PEST/Applicator/Pesticide%20Applicator%20Recordkeeping%20Form.pdf>
 - But, applicator can use any form as long as it meets Texas state requirements.
- It should be noted that registrant training is only good for dicamba, but the TX Extension service has a training that is good for auxins, dicamba and 2,4-D products.

WISCONSIN SUPPLEMENTAL INFORMATION





RECORD KEEPING

• WISCONSIN REQUIREMENTS

- Check with your state pesticide regulatory agency for additional training and application requirements imposed by your state
- Records required for each application of these products.

e.g., if 10 fields are sprayed, 10 sets of records are required, including if the same field is sprayed twice

- The certified applicator must keep required documentation for a period of two years; records must be generated as soon as practical but no later than **72 hours** after application for private applicators and on the day of application for commercial applicators
- Copies of receipts for required VRA and DRA purchases are required and the amounts used in each tank load must be recorded.
- All applicator records must include customer name and address and mix/load location if different than business location
- Records must be made available to State Pesticide Control Official(s), USDA and EPA upon request.

Appendix C

Becky Langer-Curry

From: Becky Langer-Curry
Sent: Friday, March 18, 2022 3:30 PM
To: Navinsky-Wenzl, Kelly
Subject: Updated Dicamba Training
Attachments: XtendiMax_20220315 Dicamba Training Deck.pdf

Hi Kelly

On March 15, 2022, the US EPA approved amended labeling for XtendiMax® With VaporGrip® Technology (EPA Reg. No. 264-1210), Engenia® Herbicide (7969-472), and Tavium® Plus VaporGrip® Technology (100-1623).

Bayer has updated the annual dicamba training deck to incorporate the new restrictions from the amended labeling and is providing here a copy of the updated training deck to support you in assisting users in their local area in your state. Users must have in their possession at the time of application all labeling applicable to their location, including state-specific and collateral labels, for these products to be lawfully applied after March 15, 2022.

As part of the new amended labeling, all applicators must check the applicable over-the-top dicamba product-specific website no more than 7 days before application of the product for additional labeling, including state restrictions. Where applicable, applicators must comply with additional requirements found on the applicable product-specific website. Links to both state-specific and collateral labeling can be accessed directly from that website.

- State-specific and collateral labels for XtendiMax® Herbicide with VaporGrip® Technology can be accessed at: [Application Requirements | XtendiMax® Herbicide with VaporGrip® Technology \(xtendimaxapplicationrequirements.com\)](#)
- We encourage any individual seeking information on dicamba training to visit: [Dicamba Training and Application Requirements | Roundup Ready® Xtend Crop System \(roundupreadyxtend.com\)](#)

Since dissemination of the educational and training materials to state pesticide authorities is an EPA requirement, we kindly ask you to please confirm receipt of this information via the read receipt option.

Additionally, if applicable can you please forward to extension agents in your state who may play a role in product education.

Please feel free to respond back with any questions.

Best regards,

Becky Langer, Ph.D.
State Regulatory Engagement Lead

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Bayer U.S. LLC
Regulatory Strategic Engagement
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St. Louis, MO 63141
Mobile: +1 919 699-8174
E-mail: becky.langer@bayer.com
Web: <http://www.bayer.us>

Appendix D

Becky Langer-Curry

From: Becky Langer-Curry
Sent: Tuesday, April 19, 2022 7:35 PM
To: Becky Langer-Curry
Subject: Updated Dicamba Training
Attachments: XtendiMax_20220315 Dicamba Training Deck.pdf

Hello

On March 15, 2022, the US EPA approved amended labeling for XtendiMax® With VaporGrip® Technology (EPA Reg. No. 264-1210), Engenia® Herbicide (796-472), and Tavium® Plus VaporGrip® Technology (100-1623).

Bayer has updated the annual dicamba training deck to incorporate the new restrictions from the amended labeling and is providing here a copy of the updated training deck to support you in assisting users in their local area in your state. Users must have in their possession at the time of application all labeling applicable to their location, including state-specific and collateral labels, for these products to be lawfully applied after March 15, 2022.

As part of the new amended labeling, all applicators must check the applicable over-the-top dicamba product-specific website no more than 7 days before application of the product for additional labeling, including state restrictions. Where applicable, applicators must comply with additional requirements found on the applicable product-specific website. Links to both state-specific and collateral labeling can be accessed directly from that website.

- State-specific and collateral labels for XtendiMax® Herbicide with VaporGrip® Technology can be accessed at: [Application Requirements | XtendiMax® Herbicide with VaporGrip® Technology \(xtendimaxapplicationrequirements.com\)](#)
- We encourage any individual seeking information on dicamba training to visit: [Dicamba Training and Application Requirements | Roundup Ready® Xtend Crop System \(roundupreadyxtend.com\)](#)

Since dissemination of the educational and training materials to state agricultural extension services is an EPA requirement, we kindly ask you to please confirm receipt of this information via the read receipt option.

Please feel free to respond back with any questions.

Best regards,

Becky Langer, Ph.D.
State Regulatory Engagement Lead

//////////

Bayer U.S. LLC
Regulatory Strategic Engagement
700 Chesterfield Parkway
St. Louis, MO 63141
Mobile: +1 919 699-8174
E-mail: becky.langer@bayer.com
Web: <http://www.bayer.us>

Appendix E

Dear XtendiMax® With VaporGrip® Technology Retailers and Distributors,

On March 15, 2022, the US EPA approved amended labeling for XtendiMax® With VaporGrip® Technology (EPA Reg. No. 264-1210). Previous product labeling approved by EPA prior to March 15, 2022 is now superseded by the amended labeling. The amended XtendiMax label is available at www.xtendimaxapplicationrequirements.com. Users must have all labeling applicable to their location in their possession for XtendiMax to be lawfully applied after March 15, 2022.

Users are under legal obligation to follow amended labeling. It is a violation of Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 12 to use a registered pesticide in a manner inconsistent with its labeling.

Specifically, all users of XtendiMax must:

- Check www.xtendimaxapplicationrequirements.com no more than **7 days** before application of this product for additional labeling, including state restrictions. Where applicable, users must comply with additional requirements found on this website.
- Obtain a copy of the amended (collateral) labeling, which must be in possession of the user at the time of application.
- Maintain a copy of the product label and any labeling that supplements the product label, including collateral and state-specific labeling, as part of the recordkeeping requirement.
- Follow the amended labeling approved by EPA on March 15, 2022.

Additionally, users in Iowa and Minnesota must:

- Obtain a copy of the state-specific labeling available for download at www.xtendimaxapplicationrequirements.com.
- Follow and be in possession of the relevant state-specific labeling at the time of application.

Iowa Specific Restrictions:

- Do not apply after June 20.

Minnesota Specific Restrictions:

- Do not apply south of Interstate 94 after June 12. Do not apply north of Interstate 94 after June 30.
- Statewide restriction: Do not apply if the air temperature of the field at the time of application is over 85 degrees Fahrenheit or if the National Weather Service's forecasted high temperature for the nearest available location for the day exceeds 85 degrees Fahrenheit. Forecasted temperature must be recorded at the start of the application.

Please refer to www.xtendimaxapplicationrequirements.com for additional information or contact Bayer at 1-844-RRXTEND.

RESTRICTED